

**NEVADA STATE BOARD OF
PROFESSIONAL ENGINEERS
AND
LAND SURVEYORS**



**Regular Board Meeting
July 16, 2026
Elko, NV**

1. Meeting Call to Order

2. Pledge of Allegiance

3. Public Comment

4. Introductions

5. NRS 625

Waiver Requests

WAIVER REQUESTS
Thursday, July 16, 2026

APPLICANTS REQUESTING WAIVER OF NRS 625.183 (4)(B)			
NAME	DISCIPLINE	TO:	GRANT?
1. Emily Clements	CHE	Karen Purcell, PE	
2. Valentino Jaganjac	CHE	Karen Purcell, PE	
3. William Ealy	MINE	Jason Dixon, PE	
<i>NRS 625.183, ITEM 4, PART B, "TWO OF THE 4 YEARS OF ACTIVE EXPERIENCE MUST HAVE BEEN COMPLETED BY WORKING UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER WHO IS LICENSED IN THE DISCIPLINE IN WHICH THE APPLICANT IS APPLYING FOR LICENSURE, UNLESS THAT REQUIREMENT IS WAIVED BY THE BOARD."</i>			

APPLICANTS REQUESTING WAIVER OF NRS 625.193 (1)(A)			
NAME	DISCIPLINE	TO:	GRANT?
1. Eric MacGill	CE	Greg DeSart, PE	
<i>NRS 625.193(1)(A) WAIVER OF FE WITH 10 OR MORE YEARS OF EXPERIENCE.</i>			

6. Non-Appearence Applications for Initial Licensure

**NEVADA STATE BOARD OF PROFESSIONAL
ENGINEERS AND LAND SURVEYORS
LAND SURVEYING EDUCATION CREDIT GUIDELINES**

DEGREE	YEARS CREDIT (MAX)	YEARS ACCEPTABLE EXPERIENCE REQUIRED
Undergraduate (BS Surveying): ABET/EAC accredited	4	4
Undergraduate (BS Surveying): ABET/ETAC accredited	4	4
Undergraduate (BS Surveying): ABET/ANSAC accredited	4	4
Undergraduate (BS Surveying): non-accredited	4	4
Surveying Associates Degree + another associates degree	4	4
Surveying Masters Degree	2	2
Engineering degree with a minimum 30 surveying credits hours (must include a PLSS course)	4	4
Non-Engineering Bachelor of Science degree with a minimum 30 surveying credit hours (must include a PLSS course)	4	4
Bachelor of Arts degree with a minimum 30 surveying credits hours (must include a PLSS course)	4	4
Bachelor of Arts degree + Surveying Associates Degree	4	4
Military Specialty in Surveying + Surveying Associates Degree	4	4

**NEVADA STATE BOARD OF PROFESSIONAL
ENGINEERS AND LAND SURVEYORS
EDUCATION CREDIT GUIDELINES**

DEGREE	YEARS CREDIT (MAX)	YEARS ACCEPTABLE EXPERIENCE REQUIRED
Undergraduate (BS): ABET/EAC accredited	4	4
Undergraduate (BS): ABET/ETAC accredited	4	4
Undergraduate (BS Engineering): Washington Accord	4	4
Undergraduate (BS Engineering): Non-ABET/non-Washington Accord (must meet NCEES education standard, any deficiencies to be considered by board)	4	4
Undergraduate (BS Construction Management): ABET accredited	4	4
Undergraduate (BS Construction Management): Not ABET accredited but institution has ABET accredited engineering programs	4	4
Engineering Masters: US Masters with non-US BS and/or non-Washington Accord in Engineering	6	2
Engineering Doctorate: US Doctorate with non-ABET/non-Washington Accord/foreign BS+MS in Engineering	6	2

Chemical

EMILY CLEMENTS (20-286-50)

All work experience reviewed by two licensed professionals

DISCIPLINE: CHEMICAL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/22/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
2 years, 10 months

Total Engineering Experience
2 years, 10 months

Experience under licensed engineer
2 years, 2 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Chemical Engineering (EAC)
University of Notre Dame
August 2014–May 2018

Doctorate in Environmental Engineering
University of Notre Dame
January 2019–January 2024

Masters in Environmental Engineering
University of Notre Dame
January 2019–May 2023



WAIVER REQUEST: NRS 625.183. ITEM 4. PART B.

EXAMS



Fundamentals of Engineering (FE)
Ohio
May 2021

Principles and Practice of Engineering (PE)
Chemical
Nevada
July 2025

LICENSES



Additional Licenses
None

WORK EXPERIENCE

Southern Nevada Water Authority
Nevada (United States)
Postdoctoral Researcher
August 2023—August 2025

Verified by
Daniel Gerrity
daniel.gerrity@snwa.com

Experience Summary
Full-Time
Engineering: 2 years
Post EAC degree: 2 years
Experience under licensed engineer:
1 year, 4 months

TASKS

Prior to joining the Southern Nevada Water Authority (SNWA), my graduate research was on reactors for wastewater treatment and modeling drinking water quality. When I was a Postdoctoral Researcher at SNWA from August 2023 to August 2025, my expertise expanded to include water reuse, microbial risk assessment, and applied machine learning, and I added R and Python to my programming languages. I conducted applied engineering research to protect public health and inform water treatment decisions for one of the largest drinking water providers in the western United States.

Throughout my 2-year tenure, my title as a postdoctoral researcher remained constant, but I exercised an increasingly high degree of personal autonomy in shaping the direction and scope of my work. I identified research questions, designed analytical frameworks, and determined which methods, tools, and datasets were appropriate for each problem. This required integrating knowledge across environmental engineering, statistics, microbiology, and public health. The work was technically complex, requiring me to develop and validate probabilistic risk models, build and tune machine learning models, and synthesize disparate data sources including hydrodynamic model outputs, treatment performance data, and pathogen monitoring records into unified quantitative assessments. I designed and directed laboratory experiments using a suite of online sensors to generate the continuous water quality datasets needed for model development, and I supervised a research intern, assigning tasks, reviewing work, and providing technical guidance throughout the project. As my tenure progressed, I took on increasing responsibility for project design and execution with minimal oversight, and my research agenda expanded in both scope and complexity.

My work products included 12 peer-reviewed publications, over a dozen technical conference presentations, technical models, and detailed literature reviews. I collaborated with multidisciplinary teams of engineers, hydrodynamic modelers, and ecologists, and communicated findings to both technical and nontechnical audiences.

REPRESENTATIVE PROJECTS

Quantitative Microbial Risk Assessment for Potable Reuse at Lake Mead, Southern Nevada Water Authority, Las Vegas, NV. August 2023 - August 2025.

This project quantified infection risk from waterborne pathogens (norovirus, enterovirus, adenovirus, Giardia, and Cryptosporidium) at Lake Mead, Nevada, due to de facto water reuse, where wastewater is discharged into a receiving water body where there is a drinking water intake. I designed the overall quantitative microbial risk assessment framework, which integrated outputs from prior hydrodynamic modeling work and treatment performance log reduction values, which I calculated, into a unified risk model implemented in R. This approach was novel in its combination of these data sources within a single assessment. I implemented three lake levels in the model, to determine the impact of continued drought in Southern Nevada on the risks associated with pathogens originating in wastewater. I assessed risk under a scenario in which ozone was removed from the treatment train or under an ozone failure scenario, evaluating whether remaining barriers were sufficient to maintain acceptable public health protection under each condition. The results of this study have been peer reviewed and published in Environmental Science: Water Research & Technology, and will help inform potable reuse regulations in Nevada.

Machine Learning Models to Detect and Quantify De Facto Reuse and Cyanobacterial Blooms, Southern Nevada Water Authority, Las Vegas, NV. December 2023 - June 2025.

This project developed machine learning models to identify and quantify elevated concentrations of treated wastewater and cyanobacterial blooms at SNWA's Lake Mead drinking water intake. I designed the laboratory data collection experiments and oversaw months of continuous 15-minute interval measurements, supervising an intern who performed the regular sensor maintenance and data collection. I developed a classification model to detect the presence of de facto reuse and bloom events, screening 56 machine learning models to select the most accurate. With the new data, I also developed a regression model to quantify the amount of wastewater effluent at the intake, screening 85 algorithms to determine the most accurate, engineering input features, and comparing against simpler models. Results from both models were peer-reviewed and published in Science of the Total Environment and Results in Engineering.

Quantitative Microbial Risk Assessment for Legionella pneumophila in Premise Plumbing, Southern Nevada Water Authority, Las Vegas, NV. August 2023 - March 2024.

This project estimated the infection risk of Legionella pneumophila to shower users in premise plumbing systems without disinfectant residuals, determining how the risks decline if purging devices are implemented to periodically flush the water and decrease the water age I conceived the project based on premise plumbing modeling work I had conducted during my PhD, and paired water age distributions with Legionella growth rates to estimate pathogen concentrations throughout the plumbing system. I then performed the risk assessment, evaluating how occupancy levels within a house and fixture purging frequency and duration influenced risk outcomes. This resulted in recommending which mitigation strategies were sufficient to reduce risk. This work was published in Environmental Science & Technology.

EMILY CLEMENTS (20-286-50)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Carollo Engineers, Inc
Virginia (United States)
Reuse Innovation Manager
August 2025—June 2026

Verified by
Kyle Thompson
kthompson@carollo.com

Experience Summary
Full-Time
Engineering: 10 months
Post EAC degree: 10 months
Experience under licensed engineer: 10 months



TASKS

As Reuse Innovation Manager at Carollo Engineers, I do applied research at the intersection of water reuse, treatment performance, and data science to advance potable reuse. My role combines independent research with collaborative projects with utility partners, academics, and other consulting firms.

I identify and develop research opportunities, including authoring and co-leading a successful Water Research Foundation (WRF) competitive grant proposal as co-PI. I design analytical frameworks and translate technical findings into peer-reviewed publications and articles for regional journals. My work draws on environmental engineering, microbiology, statistics, and machine learning, requiring integration of heterogeneous data sources including utility monitoring records, gray literature, and process performance datasets.

I also contribute to National Alliance for Water Innovation (NAWI) projects, leading model development tasks and coordinating with utility partners and other researchers. I also conduct research on emerging reuse topics including stormwater-to-potable risk assessment for interested utilities and biofiltration performance characterization. Across projects, I am responsible for proposal writing, study design, method selection, analysis, and dissemination of results to both technical and non-technical audiences through peer-reviewed publications, conference presentations, and project reports.



REPRESENTATIVE PROJECTS

Log Reduction Values for Wastewater Treatment Plants, Carollo Engineers, Arlington, VA. August 2025 - June 2026

The goal of this project is to determine log reduction values (LRVs) for wastewater treatment, with direct relevance to emerging potable reuse regulations in states that must determine treatment credits for secondary treatment processes. The first of the project involved detailed analysis of LRV calculation methods applied to membrane bioreactor (MBR) systems, comparing Monte Carlo simulation, bootstrapping, and ranked pair approaches to evaluate how methodological choices affect 5th percentile LRV estimates, which are typically regulated, and their uncertainty. I performed the data analysis for this project in Python.

For the second part of this project, I developed machine learning models to predict virus LRVs for secondary treatment. I compiled and formatted the data for machine learning and screened and trained multiple algorithms to identify the most predictive models. Findings from this project directly informed a competitive WRF grant proposal that I co-authored and for which we were awarded funding, and on which I am the project manager. Two manuscripts are in preparation for this work. The project is being expanded to include protozoan LRVs, incorporating gray literature data from utilities to broaden the training dataset and generalizability of the models.

Machine Learning Models for RO System Operations, Carollo Engineers, Arlington, VA. January 2026 - June 2026

This effort encompasses two related NAWI-funded projects focused on applying machine learning to improve operational monitoring and predictability in reverse osmosis (RO) systems. Both projects involve close collaboration with utility partners and are generating peer-reviewed publications.

The first project investigated whether concentrations of NDMA, a disinfection byproduct, at a utility's RO system could be predicted using soft sensors. Soft sensors do not directly measure contaminant concentrations, instead measuring related features and using a model to predict the target feature. A previous study at another facility had demonstrated strong predictive accuracy for this approach. However, when I performed the model development for this utility, I found that NDMA concentrations were not well predicted by the available soft sensor variables. This demonstrated some limits of transferability of soft sensor models for trace contaminant monitoring.

For the second project, I developed long short-term memory (LSTM) recurrent neural network models to predict fouling in RO

membranes using time-series operational data. This approach is well-suited to capturing the temporal dynamics of fouling progression. The model has demonstrated strong performance and is being refined in collaboration with the utility partner and an academic partner. A peer-reviewed manuscript is in preparation. Together, these projects advance the use of data-driven tools to support more proactive and efficient RO operations across the water sector.

ADDITIONAL INFORMATION

TIME GAPS

Start Date	End Date	Explanation
June 2018	December 2018	I volunteered at an organization that provides services to people experiencing homelessness and raised money to install solar panels on the roof. From August-December, I spent a few hours a week in Dr. Nerenberg's lab, prior to joining it in January.

VALENTINO JAGANJAC (22-655-01)

All work experience reviewed by two licensed professionals

DISCIPLINE: CHEMICAL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/10/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
4 years

Total Engineering Experience
4 years

Experience under licensed engineer
4 years

Disciplinary Action
None reported



EDUCATION



Bachelors in Chemical Engineering (EAC)
University of Nevada, Reno
August 2018–May 2022

WAIVER REQUEST: NRS 625.183. ITEM 4. PART B.

EXAMS



Fundamentals of Engineering (FE)
Nevada
March 2022

Principles and Practice of Engineering (PE)
Chemical
Nevada
October 2024



LICENSES



Additional Licenses
None

WORK EXPERIENCE

Nevada Division of Environmental
Protection
Nevada (United States)
Staff Engineer
May 2022—May 2026

Verified by
Jeffrey Guy Kinder
jgkinder70@gmail.com

Experience Summary
Full-Time
Engineering: 4 years
Post EAC degree: 4 years
Experience under licensed engineer:
4 years



TASKS

Bureau of Air Pollution Control – Chemical Accident Prevention Program (BAPC – CAPP)
Staff Engineer (May 2022 – Present)

I began my career with the Bureau of Air Pollution Control as a staff engineer for the CAPP in May 2022. My responsibilities include permitting and regulating facilities with processes containing highly hazardous substances above defined threshold quantities, tabulated in the Nevada Administrative Code (NAC). To permit a new facility, I review permit applications which provide process safety information (including, but not limited to: the basis for the design of a relief system, pressure relief valve calculations, piping and equipment specifications, safe upper and lower limits for process variables and consequences of deviation, piping and instrument diagrams, electrical classification drawings, safety systems, design codes and standards, process chemistry), a process hazard analysis (PHA), emergency action plan, hazard assessment, and other written prevention programs. At different stages of review when applications are compliant with NAC 459.952 through 459.95528, inclusive, I write a permit to construct and a permit to operate. To regulate facilities, I conduct annual site inspections as part of a team to evaluate compliance with the requirements of NAC 459.95364 through 459.95442, inclusive. During a site inspection, my duties may include, but are not limited to, reviewing process safety information, reviewing a PHA and any supplemental analysis of facility siting, human factors, and external forces, verification that engineering and administrative controls identified in the PHA are in place and maintained, verification that equipment is inspected, tested, and maintained, incident investigation reports, review of any implemented management of change including its technical basis, safety and health review, and training necessary as a result of the change. Afterwards, I collaborate with other engineers to document results of the inspection in a written report to effectively communicate corrective actions required to achieve compliance.



REPRESENTATIVE PROJECTS

Review of Golden Gate Terminal Permit Applications; McCarran, NV
January 2023 – February 2024
October 2024 – October 2025

I reviewed the facility's application for a permit to construct a bulk liquefied petroleum gas storage and distribution process. My responsibilities included reviewing the hazard assessment, a process hazard analysis (PHA) utilizing the hazard and operability study (HAZOP) methodology, an emergency action plan, and process safety information (which includes electrical hazardous area classification, piping and instrument diagrams, materials of construction, piping specifications, pressure relief valve calculations, safety systems, safe upper and lower limits, design codes and standards that were employed, and material balance). I completed the review in accordance with the Nevada Administrative Code (NAC). I communicated deficiencies by writing observations in "program checklists", which are a tool used to evaluate documentation, implementation, and help facility personnel understand the NAC requirements. I wrote a permit to authorize the facility to construct the process upon compliance being achieved for the scope of the review. During the next stage of review, I conducted an evaluation of all elements in the written prevention program to ensure compliance with the NAC. As the construction of the process progressed, I was part of a team that verified the existing conditions using piping and instrument diagrams and written description of safety systems; additionally, the construction was evaluated with consideration of the requirements in NFPA 58, Liquefied Petroleum Gas Code (2020 edition) – a design code identified by the facility. I wrote a permit to authorize the operation of the process when I confirmed all documentation pertaining to the prevention programs was developed, implemented, and integrated pursuant to the requirements of the NAC. For the facility's expansion to include an additional pressure vessel, another permit application was submitted. I was responsible for conducting the same reviews and verifications that I performed for the first permit.

Review of Ormat Geothermal Power Plant Permit Application; Beowawe, NV

March 2023 – May 2023

I reviewed the facility's application for a permit to construct a geothermal power plant. My review consisted of a hazard assessment, a PHA (utilizing the HAZOP and a "what if" analysis combined with a checklist methodologies), an emergency action plan, and process safety information (described above). I communicated deficiencies by writing observations in "program checklists" (described above). I wrote a permit to authorize the facility to construct the process once the requirements of the NAC were met at that stage of review.

Review of Kinder Morgan Permit Application; Sparks, NV
September 2023 – December 2023

I was part of a team that reviewed the facility's application for a permit to construct a butane blending process. I reviewed the hazard assessment, PHA (utilizing HAZOP and checklist methodologies), emergency action plan, and process safety information (described above). I communicated deficiencies by writing observations in "program checklists" (described above). I wrote a permit to authorize the facility to construct the process once the requirements of the NAC were met at that stage of review.

Review of Desert Hills Dairy Permit Application; Yerington, NV
December 2025 – Present

I am currently reviewing the permit application for a biogas digestion process. My review so far includes the PHA (utilizing the HAZOP methodology), hazard assessment, emergency action plan, and process safety information (relief valve calculations, safety systems, electrical area classification).

Review of Ormat Geothermal Power Plant Application for Process Expansion; Fallon, NV
January 2026 – Present

I am part of a team that is reviewing the facility's application for an upgrade to the existing process. My role is to review pressure relief valve calculations and basis for the design to be installed in the new process. Additionally, I am responsible for reviewing the revised PHA (utilizing the HAZOP and a "what if" analysis combined with a checklist methodologies) to address new hazards introduced with the upgrade to the existing process, as well as the hazard assessment and emergency action plan. I communicate deficiencies by writing observations in "program checklists" (described above). I wrote a permit to authorize the facility to construct the process once the requirements of the NAC were met at that stage of review.

Civil

CODY ALLEN (21-576-84)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/25/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
4 years

Total Engineering Experience
4 years

Experience under licensed engineer
4 years

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering (EAC)
South Dakota School of Mines and Technology
August 2017–December 2021

EXAMS



Fundamentals of Engineering (FE)
South Dakota
November 2021

Principles and Practice of Engineering (PE)
Civil
Nevada
December 2025



LICENSES



Additional Licenses
None

WORK EXPERIENCE

Kimley-Horn and Associates
Nevada (United States)
Engineering Analyst (P2)
February 2022—October 2024

Verified by
Matthew McAuley
matt.mcauley@kimley-horn.com

Experience Summary
Full-Time
Engineering: 2 years, 8 months
Post EAC degree: 2 years, 8 months
Experience under licensed engineer:
2 years, 8 months



TASKS

Year 1: I utilize AutoCAD Civil 3D to create, label, and dimension complete civil plan sets for industrial, commercial, and hospitality projects, including cover sheets, notes, grading plans, plan and profiles, horizontal control, utilities, and traffic control. I draft 2D site plans, water and sewer systems, and storm drain layouts in compliance with jurisdictional standards. I reviewed different as-built construction drawings to determine locations of existing underground utilities. I evaluate site quantities and maintain an efficient system for calculating earthwork, utility, and paving quantities for clients, contractors, and permitting agencies. I perform preliminary site visits to document existing conditions that affect design feasibility.

Year 2: I design 3D utility pipe systems and perform wastewater discharge calculations and water network analyses to determine system pressures and capacities. I use Civil 3D feature lines to grade commercial sites, including drive aisles, public streets, sidewalks, ADA ramps, parking areas, gutters, swales, and drainage basins. I ensure compliance with ADA requirements, flood control regulations, and geotechnical recommendations. I evaluate multiple grading and utility design alternatives to determine cost-efficient, constructible, and code-compliant solutions.



REPRESENTATIVE PROJECTS

February 2022 – March 2023: 5th and Cheyenne and Gowan and Commerce is a collection of logistic solutions warehouse centers located in North Las Vegas. As a designer for Kimley-Horn, I evaluated record drawings and conducted site visits to document existing conditions affecting design feasibility. I developed grading plans, plan and profiles, and drainage-related details, revising them as site constraints evolved. I assisted in structural calculations for manholes required to have structural design in accordance to local jurisdictional standards. I produced the full civil plan set, including horizontal control, utilities, and traffic control, ensuring compliance with jurisdictional standards and coordination with the drainage study.

December 2022 – July 2023: SLC Arts District is a mixed-use, multi-parcel development located on 3 parcels of land in the Las Vegas Arts District at 3rd Street and California Ave. As a designer for Kimley-Horn, I reviewed existing utility records and coordinated with the City of Las Vegas to determine optimal utility connection points. I developed a site plan that minimized disturbance to existing infrastructure and evaluated building and traffic circulation requirements to determine necessary roadway and access improvements.

June 2023 – November 2023: The parking lots around the MSG Sphere at Koval Lane and Sands Avenue needed to be reconstructed to accommodate the Formula 1 track that runs through the site. As a designer for Kimley-Horn, I redesigned the parking lot layouts to accommodate the Formula 1 track alignment while maintaining operational needs for the MSG Sphere. I coordinated directly with the F1 design team to resolve geometric conflicts, preserve required infrastructure, and ensure the site functioned under both event and non-event conditions.

March 2023 – October 2024: The Jokers Wild Casino redevelopment involved a new proposed casino to be built while the existing Jokers Wild Casino stayed operational until the new casino was constructed. As lead designer for Kimley-Horn, I prepared grading plans, plan and profiles, and drainage details while maintaining operations of the existing facility. I calculated wastewater flows and coordinated with the City of Henderson to establish utility connection points. I reviewed record drawings to identify existing utility constraints and designed water and sewer systems for both interim and final conditions. I performed a water network analysis to verify hydrant and building pressures. I coordinated site design with the Reimagine Boulder Highway capital improvement project and adjusted grading and access to remain compatible with the roadway improvements.

CODY ALLEN (21-576-84)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

GCW, Inc
Nevada (United States)
Engineering Intern II
February 2025—June 2026

Verified by
Wesley Petty
WPetty@gcwengineering.com

Experience Summary
Full-Time
Engineering: 1 year, 4 months
Post EAC degree: 1 year, 4 months
Experience under licensed engineer:
1 year, 4 months



TASKS

Years 3 & 4: I perform site layouts for residential subdivisions and commercial developments. I use Civil 3D corridors to design roadway and grading systems for subdivision projects. I review plan sets for quality control and provide feedback to improve accuracy, consistency, and ensure compliance with local public works standards, drainage manuals, ADA requirements, and utility provider specifications. I coordinate with clients, jurisdictions, and multidisciplinary design teams to resolve issues, maintain project alignment, and prevent issues that could arise in later project phases. I develop and present plan-set production workflows that improve team efficiency, standardization, and quality of deliverables.



REPRESENTATIVE PROJECTS

February 2025 – May 2025: Clark County School District athletic field replacement involved replacing grass fields with turf. As a designer for GCW, I produced civil plans for the removal of natural-grass fields and installation of new turf systems at multiple high schools. I evaluated each site for ADA compliance and designed new grading to correct non-compliant areas while maintaining drainage functionality and constructability.

April 2025 – Present: The DOA parcels are a collection of single-family residential projects developed from Clark County Department of Aviation land auctions. As a designer for GCW, I prepared complete off-site improvement plans for multiple residential parcels. I evaluated existing site conditions, developed grading using Civil 3D corridors, and incorporated drainage study findings into the design. I designed water, sewer, and storm drain systems in accordance with local jurisdictional standards and coordinated utility connections with surrounding infrastructure. I coordinated with Clark County Public Works to resolve conflicts with an adjacent capital improvement plan and adjusted site grading and utility alignments to maintain compatibility with the roadway improvements.

December 2025 – Present: Summerlin Village 27, Parcel G is a single-family residential development in Las Vegas. As lead site designer for GCW, Inc., I developed the initial site layout and grading concept used by the client to secure development rights. During design, I prepared retaining wall layouts and storm drain systems to maintain the established drainage pattern. I produced an interim mass-grading plan to allow early construction while final improvement plans were still in development.

OLUWATOBI BABARINDE (16-259-33)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/29/2026

Citizenship
Nigeria

SUMMARY



Engineering Experience after EAC degree

Total Engineering Experience
3 years, 11 months

Experience under licensed engineer
3 years, 11 months

Other Experience

Disciplinary Action
None reported



EDUCATION



Meets NCEES Engineering Education Standard

Bachelors in Civil Engineering
Obafemi Awolowo University
October 2006–March 2012

Masters in Civil and Environmental Engineering
Northwestern University
September 2014–December 2015

Doctorate in Engineering Materials and Infrastructure Systems
Louisiana Tech University
September 2018–May 2022



Nestor CASTANEDA AGUILAR P.E.
necastaneda@sgh.com | (314) 780-7697

Kristen Peterson P.E.
kapeterson@sgh.com | (781) 296-5499

Piyush Garg P.E.
piyushgar@gmail.com | (716) 903-5243

Peter Nardini P.E.
pdnardini@sgh.com | (781) 907-9202

Rasko Ojdrovic P.E.
rpojdrovic@sgh.com | (781) 907-9231

EXAMS



Fundamentals of Engineering (FE)
Michigan PE
November 2015

Principles and Practice of Engineering (PE)
Civil
Nevada
June 2026

LICENSES



Additional Licenses
None

OLUWATOBI BABARINDE (16-259-33)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Ekiti State Univeristy
Ekiti (Nigeria)
Teaching/Research Assistant
July 2012—June 2013

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

OLUWATOBI BABARINDE (16-259-33)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Industria Inc.
Illinois (United States)
Assistant Project Engineer
April 2016—June 2017

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

WORK EXPERIENCE

Simpson Gumpertz & Heger Inc.
Massachusetts (United States)
Project Consultant
July 2022—June 2026

Verified by
Peter Nardini
pdnardini@sgh.com

Experience Summary
Full-Time
Engineering: 3 years, 11 months
Experience under licensed engineer:
3 years, 11 months



TASKS

I work in the Engineering Mechanics and Infrastructure (EMI) Division, Water and Industrial Infrastructure sub-division, practicing Structural Engineering, with focus on buried infrastructures including pipelines of various materials, sewers, and culverts.

I perform condition assessment evaluations, failure investigations, and repair and rehabilitation design and construction of infrastructures using engineering mechanics and advanced analysis methods.

I have been a Project Consultant, 100% engineering, since joining working directly with various licensed engineers, independently performing engineering calculations, FEA modelling, preparing construction drawings, and conducting site investigations and inspections.



REPRESENTATIVE PROJECTS

Project Name: NextEra Energy Seabrook Station Nuclear Power Plant

Scope: Structural Evaluation and Testing Projects

Dates: 2022 - 2023

Specific Role:

1. I was part of the team that coordinated destructive and non-destructive laboratory testing to develop a procedure for estimating stresses in rebars in the Residual Heat Removal (RHR) Vault structure. I performed tests to determine the physical and mechanical properties of reinforcement bars per ASTM requirements. I also instrumented specimens for rebound strain measurement approach for residual stress determination
2. I evaluated the nuclear plant's cooling system buried flume structure for capacity adequacy to resist the original design loads and revised loads, especially including alkali-silica reaction (ASR), and swelling as part of a team perform numerous evaluations of several structures to support the plant's license renewal application to the Nuclear Regulatory Commission (NRC).

Project Name: Failure Risk Analysis of Santa Clara Valley Water District's (SCVWD) 78 in. Diameter Almaden Valley Pipeline

Scope:

Dates: 2023

Specific Role:

1. I evaluated the water pipeline's as-built intact embedded cylinder pipe (ECP) prestressed concrete cylinder pipe (PCCP) design for adequacy against internal pressure, soil water and self-weight loads, and HL-93 design truck live load per the current AWWA C304 standard.
2. I evaluated the failure risk of the pipeline's distressed PCCP by performing finite element analysis of the PCCP and uncertainty analysis of the reported broken prestressing wire wraps. This helped SCVWD prioritize distress pipe repair.

Project Name: Internal Carbon Fiber Reinforced Polymer (CFRP) Repair of Santa Clara Valley Water District's (SCVWD) 78 in. Diameter Almaden Valley Pipeline

Scope:

Dates: 2023

Specific Role:

1. I designed the CFRP repair design for distressed pipes in the pipeline, performing calculations per AWWA C305 and preparing the construction drawings.
2. I performed QC Inspection during the repairs by effectively communicating with the installation team ahead of time to prevent avoidable construction issues.

Project Name: Thrust Restraint Evaluation of B.E. Payne Transmission Main 60 in. Diameter PCCP, Louisville Water Company

Dates: 2024 - 2025

Specific Role:

1. I performed the hydraulic thrust restraint analysis of horizontal bends per the current AWWA M9 and performed a more detailed analysis using finite element techniques for compound bends.
2. I recommended locations and options for repair or replacement, considering the results of our evaluations, designed the CFRP repair design per AWWA C305, and prepared the construction drawings.
3. I performed QC Inspection during the repairs.

Project Name: Assessment and Retrofit Design of Longitudinal Restraints for HDPE Pipe, Data Center Buildings, Toney, AL

Dates: 2024

Specific Role:

1. I performed a thermal analysis to determine the temperature distribution through the buried Facility Water HDPE pipe to determine the load duration for selection of an apparent modulus for the HDPE pipe.
2. I assessed the soil resistance to the thermal expansion, through skin friction, considering the longitudinal demands resulting from hydraulic thrust forces and Poisson's effect by performing a soil-structure interaction (SSI) finite element analysis (FEA) that considers the stiffness of the HDPE pipe at elevated temperatures to determine the demands imposed on the joints, vertical legs, and restraint points of the piping system.

OLUWATOBI BABARINDE (16-259-33)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

Start Date	End Date	Explanation
July 2013	August 2014	Grad school application and processing
July 2017	August 2018	Grad school application and processing

ALEXANDER BRISCOE (22-182-19)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/19/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
2 years, 1 month

Total Engineering Experience
2 years, 1 month

Experience under licensed engineer
2 years, 1 month

Disciplinary Action
None reported



EDUCATION



Non-degree
Great Basin College
August 2017–May 2018

Bachelors in Civil Engineering (EAC)
University of Nevada, Reno
August 2018–May 2022

Non-degree
Truckee Meadows Community College
December 2019–January 2020

Masters in Civil: Structures and Earthquake Engineering
University of Nevada, Reno
September 2022–May 2024



EXAMS



Fundamentals of Engineering (FE)
Nevada
February 2022

Principles and Practice of Engineering (PE)
Civil
Nevada
November 2025

LICENSES



Additional Licenses
None

ALEXANDER BRISCOE (22-182-19)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Linchpin Structural Engineering, Inc
Nevada (United States)
Project Engineer
May 2024—June 2026

Verified by
Douglas Gadow
doug@linchpinse.com

Experience Summary
Full-Time
Engineering: 2 years, 1 month
Post EAC degree: 2 years, 1 month
Experience under licensed engineer:
2 years, 1 month



TASKS

I performed investigation, calculations, and design within the structural subspecialty of civil engineering.

I calculated gravity and lateral loads for single and multi-story structures (residential, commercial, and public), mechanical equipment, and other structures using applicable codes (IBC, ASCE 7) in high snow, wind, and seismic areas. I calculated and designed structural steel elements (moments frames, beams, columns, and connections), wood elements (roof/floor framing, wall framing, diaphragms, shear walls, timber moment frames, and connections), concrete elements (shallow foundations, and retaining walls), concrete masonry unit elements (retaining walls) using applicable material codes, hand calculations, and design/analysis softwares (Enercalc and Risa 3D). I calculated and designed alternate field fixes for project specific constraints and field errors. I coordinated with other disciplines and explained structural design intent to inform design decisions on projects that I had designed. I investigated existing structures and used engineering principles and building codes (IEBC/IBC and applicable material codes) to design and calculate repair, reinforcement, or replacement options. I analyzed reaction output reaction values from Enercalc and Risa 3D to design other dependent elements. I wrote material book specifications using the design intent for projects that I had designed.

My progression of experience is represented by complexity, scale, and responsibilities of projects over time; initially, my responsibilities were design of small and simple projects (residential deck, anchorage of mechanical elements, single story residential or light frame commercial, small scope remodels) or simple individual tasks from more complex projects (sizing partition walls, individual framing calculations for gravity only) and often had direct supervision and guidance for each task. As my experience increased I was responsible for the full coordination, design, and calculations of larger and more complex projects (multi-story residential with complex geometry, large scope remodels).



REPRESENTATIVE PROJECTS

Dollar Tree RTU Replacement, the installation of a new roof top unit on an existing structure.

May 2024 – June 2024

I calculated gravity and lateral loads imposed by the existing and new roof top mechanical units using building codes. I analyzed and calculated stresses to existing wood roof framing members using engineering principles and design softwares (Enercalc) to ensure they would be adequate to resist new forces from the new roof top unit. I hand-calculated and designed the anchorage for the new roof top unit to attach to the existing roof framing.

Basile Residence, the construction of a simple two-story custom residence (2623 square feet).

March 2025 – May 2025

I designed and performed gravity and lateral calculations in a high seismic and snow area for a simple two-story light-framed wood residence with some structural steel elements (roof framing, floor framing, wall framing, lateral force resisting system, steel columns, steel beams, shallow concrete foundations) using Enercalc and hand-calculations. I selected key shear wall locations to ensure an adequate load path governed by engineering principles. I reviewed calculations from the roof truss manufacturer for compliance to design intent and required loading.

Millerton SRA Shade Structure, the construction of an open, timber-frame shade structure with somewhat complex geometry.

January 2026 – March 2026

I calculated gravity and lateral loads using ASCE 7 and calculated and designed vertical framing elements and a series of lateral resisting timber frames using Risa 3D software due to the hexagonal shape of the structure and load combination complexities (varying directions of lateral forces, multiple load cases and directions of wind forces). I informed the client of structural design implications of using alternate timber species. I analyzed Risa 3D outputs to calculate and design the custom steel-to-wood connections required at the frame joints (hand-calculation using AISC, NDS, and engineering principles) and the shallow concrete foundations required at the frame bases (Enercalc).

Edgar Addition/Remodel, the construction of a major remodel of, and addition to, a 2-story split-level (4300 square feet) with moderately complex geometry.

June 2025 – May 2026

I designed and performed gravity and lateral calculations in a high seismic, wind, and snow area for a two-story light-framed wood residence with some structural steel elements (roof framing, floor framing, wall framing, lateral force resisting system, steel columns, steel reinforced wood beams, shallow concrete foundations, concrete grade beam, CMU retaining walls) using Enercalc and hand-calculations. I used engineering principles and the NDS to calculate and design several small laterally-cantilevered wood diaphragms, and accounted for the split level geometry of the structure, which contributed to the overall complexity of the lateral and vertical load path. I selected specific types and locations of shear wall systems using knowledge of design principles to reduce required materials and labor costs. I coordinated with the roof truss manufacturer to explain design intent and loading requirements and utilized reaction outputs from the truss calculations to verify my design of vertical framing members. I coordinated with the contractor to discuss fixes for field issues, explained the engineering mechanics of why I couldn't proceed with the contractor's proposed fix, and designed and calculated adequate solutions using hand calculations, NDS, and TMS.

EMMANUEL CASTRO (20-578-13)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
07/06/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
5 years, 4 months

Total Engineering Experience
5 years, 4 months

Experience under licensed engineer
5 years, 4 months

Other Experience

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering (EAC)
University of Nevada, Reno
August 2016–May 2020

EXAMS



Fundamentals of Engineering (FE)
Nevada
May 2020

Principles and Practice of Engineering (PE)
Civil
Nevada
May 2026



LICENSES



Additional Licenses
None

EMMANUEL CASTRO (20-578-13)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Hamilton Medical
Nevada (United States)
Quality Control Technician
June 2020—March 2021

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

EMMANUEL CASTRO (20-578-13)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

New Millennium Building Systems
Nevada (United States)
Design Engineer
March 2021—July 2026

Verified by
Mark W Maloney
mark.maloney@newmill.com

Experience Summary
Full-Time
Engineering: 5 years, 4 months
Post EAC degree: 5 years, 4 months
Experience under licensed engineer:
5 years, 4 months



TASKS

I provide engineering direction to detailing, design, sales, and production departments. This includes ensuring that the analysis and design conforms to the design criteria outlined by the project contract documents as the product proceeds through various stages.

I design steel joists, joist girders, steel decking, and applicable bracing according to all relevant codes and standards. The area of work covers but is not limited to roof and floor systems for projects including commercial buildings, industrial buildings, schools, offices, warehouses, medical centers, and military buildings.

I design specific connections and engineered components that are unique to our product. Such items include the delegated design connections between our product and other trades as well as internal structural components that are unique to the project.

I review and interpret contract documents as well as correspond with architects/engineers of record, fabricators, erectors, and other various trades on product design requirements.

I provide the engineering calculations for design submittals for deferred design/build items. I review and verify that the submitted drawings and calculations are in conformance with the contract documents and referenced codes and standards.

I produce engineered modification and repair details for steel roof products due to changes not considered in the original design specifications. This includes analyzing the existing condition of the structure and developing procedures for the modification or strengthening of the product in order to maintain or meet the design requirements.

I perform evaluations for alternative designs where the basis of design was amended or could not be provided. This includes providing an engineered submittal for utilizing an alternative that fulfills the original design criteria.



REPRESENTATIVE PROJECTS

Uline F6 Warehouse | Collier County, Florida | July 2021 - September 2021

I designed the steel roof truss framing system for a warehouse using analysis and design software. This involves interpreting the information on the detailing documents and transcribing it into the software. I prepared the fabrication details for production which includes material requirements, dimensional information, and connection details.

580 South - Shell Building 1 | Reno, NV | May 2022

I provided engineering direction by interpreting the fire protection contract documents and determining the required design loads to the roof structure. This includes interpreting the forces enacted by the fire protection system and calculating the resultant loading to the roof framing system.

Post and Rainbow Industrial | Las Vegas, NV | January 2023

I composed field modification details for roof trusses that required reinforcements due to the addition of mechanical units that were not included in the original scope of design. I reviewed the existing structure to determine the existing load capacity. Then I analyzed the structure with the additional loading induced by the new mechanical units and determined that the trusses must be reinforced to support the new loads. Finally, I composed reinforcement details for the field contractors to perform the modifications that included the scope/procedure of work, material requirements, and installation instructions.

Yakima ECS Warehouse | Yakima, WA | November 2024

I provided repair details for a roof girder that was damaged during erection. I evaluated the existing condition of the girder and

determined that it would need to be repaired to maintain its required design capacity. I designed reinforcements to strengthen the damaged components and drafted the repair details for field use.

Reed High School Modernization | Reno, NV | September 2025 - October 2025

I reviewed the design of the roof trusses for this project for compliance with the contract documents and all relevant codes and standards. I verified the engineering calculations including the required loading, resultant forces, stresses, material requirements, dimensional requirements, and connection details.

Rosaurer's Belgrade | Belgrade MT | June 2025

I performed an evaluation for utilizing an alternate deck product in lieu of the product specified in the basis of design. I calculated the allowable loads, connection strengths, and other design requirements using the alternate design and composed an engineered submittal that evaluates the acceptability of the proposed alternative.

Velvaere Wellness Center | Velvaere, UT | February 2026

I designed the splice details for special profile roof trusses that were to be shipped partially completed and then fully assembled on the job site. I performed the calculations to determine the demand and required capacity of the connection. I then drafted the connection fabrication details to be implemented onto the trusses during production and included installation details for the erectors.

Lloyd Convert Venue | Portland, OR | 2025 - 2026

I served as the project engineer for the steel roof truss framing system of this events center. I reviewed the contract documents including but not limited to the structural, architectural, mechanical, and fire protection plans to determine project design requirements. I then gave engineering direction to the detailing and design departments including but not limited to the interpreting the loading requirements, determining connection details, and verifying that our scope would not conflict with external trades. Finally, I provided engineering support as the project proceeded through fabrication, delivery, and erection. This included ensuring that the product was being produced accordance to the shop bill of materials and quality control standards as well as delivered and erected in a safe and efficient manner per contractor guidelines.

MAXWELL CROW (22-717-30)

All work experience reviewed by two licensed professionals

DISCIPLINE:CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/24/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
4 years, 1 month

Total Engineering Experience
4 years, 1 month

Experience under licensed engineer
4 years, 1 month

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering (EAC)
University of Nevada, Reno
August 2018–May 2022

EXAMS



Fundamentals of Engineering (FE)
Nevada
March 2022

Principles and Practice of Engineering (PE)
Civil
Nevada
May 2026



LICENSES



Additional Licenses
None

WORK EXPERIENCE

CFBR Structural Group
Nevada (United States)
Associate Engineer
May 2022—June 2026

Verified by
Matthew Fetting
matt@cfbrgroup.com

Experience Summary
Full-Time
Engineering: 4 years, 1 month
Post EAC degree: 4 years, 1 month
Experience under licensed engineer:
4 years, 1 month



TASKS

I manage projects and act as the lead engineer for various projects in Nevada and California. I am usually responsible for every stage of the structural design (developing design criteria, designing vertical and lateral systems according to project needs and architect preferences, modeling the project and drawing plans and details, identifying special inspections and filling out the necessary forms, etc). I am responsible for keeping jobs on schedule and communicating with architects, clients and other disciplines as needed. Once a job is submitted for permit I am responsible for responding to plan check comments. While the project is under construction I am responsible for all construction administration including RFI's, revisions, and structural observations.

All of this is under the supervision and with the advice of principal engineers at our office.

I am also frequently acting in support roles to aid my coworkers with their projects as needed. This often means either plan reviews, taking on a portion of the work, or working under a principal engineer to complete a complex project after early schematic drawings are complete.



REPRESENTATIVE PROJECTS

Solano Landing, Winery Complex
July 2023 to Current

This project consists of 11 buildings that will comprise a commercial dining/winetasting complex in central California. The buildings range from single story 1500 square foot tasting rooms to a 6000 square foot two story marketplace.

The project was completed in Revit. A principle engineer built the project models. I assembled the design criteria, designed the vertical and lateral systems, and drew the plans. The lateral systems are primarily wooden shear walls with wooden diaphragms. There is a restaurant which also includes a steel ordinary braced frame. The roofs are stick framed, and use simple custom trusses as required.

The soil at the project site is expansive, so each building requires a post tensioned slab. I built a calculation file in Excel following the "PTI DC10.1-08" recommendations. This calculator lets me iterate ribbed slab designs, then convert the ribbed slabs to an uniform thickness foundation. The calculator also checks loads applied to the slab from columns and walls above.

This project was submitted for permit in December 2025 and is awaiting design changes before beginning construction.

2500 West Lake Boulevard, Private Residence Remodel
January 2024 to Current

This is an extensive remodel to a custom home in Tahoe. I built a model in Revit using the as-built plans, modeling all architectural and structural elements in the areas with proposed improvements. I was responsible for the calculations, plans, and construction administration for this project. The lateral calculations only required me to replace some demolished wooden shear walls. The vertical system's changes were more significant. In many places, the architect proposed removing columns that supported beams at their midspan. Where possible, new posts were added or the existing beam was replaced. A wide flange beam in the upper floor cavity had a midspan column removed; because the beam carried columns that supported the roof, it could not be removed and replaced. The existing beam could handle the shear and moment demand of the new design, so I proposed stiffening the beam by welding another member to the bottom. I defined a minimum fourth moment of area based on allowable deflection, then built an excel calculator that could calculate I for a built up beam. I selected a suitable HSS, then designed a weld pattern between the two to handle the shear flow between the two shapes. The structural work on site is nearly

done.

NECC Building 1079RT, Military Training Tower
February 2026 to March 2026

This is a military rappel training tower to be constructed at Fort Story military base in Virginia. The tower is built out of steel, using braced frames and steel shear panels.

My responsibility on the job was to do connection design after given the load outputs from the Risa calculations used to design the tower. I used the AISC 360 to design connections at various lateral resisting braces, beam to beam and beam to column shear tabs, column splices at the heavy corner columns, and training equipment. I used the AISC specifications to check the plates and elements being connected, but for bolt and weld strength relied on the design tables in Chapters 7 and 8, namely the data on eccentrically loaded connections and bolt limit states. I used the specifications for bolt or weld design when the tables did not suffice.

Janiga Residence, Custom Home
September 2023 to August 2025

This is a two story house near Sacramento, CA. I built the model, developed design criteria, designed the vertical and lateral systems, and drew the plans. I handled all plancheck revisions, construction administration, and walked the completed structure in August of 2025. The most interesting portion of the project is a 10' wide, 30' long "diving board" inspired deck which I designed in Risa 3d. The deck surface is steel grating, which does not act as a diaphragm; diagonal bracing is used to stiffen the deck laterally. It anchors back to a tall retaining wall at the house, and is stabilized by a chevron base at support columns 10 feet from the house. This lateral system allows the deck to cantilever out over the hillside below.

ADRIANA DAY MORALES (24-601-30)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/09/2026

Citizenship
Canada

SUMMARY



Engineering Experience after EAC degree

Total Engineering Experience
4 years, 5 months

Experience under licensed engineer
3 years, 9 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering
Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO
January 2018–February 2022

Note: Applicant is deficient by 2 Math/Science credits but exceeds the Engineering credit requirement by 4 credits.

EXAMS



Fundamentals of Engineering (FE)
Texas
February 2025

Principles and Practice of Engineering (PE)
Civil
Texas
December 2025

LICENSES



Additional Licenses
None

WORK EXPERIENCE

FRAIS Proyectos y Edificaciones SA de CV
Jalisco (Mexico)
Hydraulics Engineer
December 2021 – August 2022

Verified by
JOSE FRANCISCO SANCHEZ
fraisingeneria@gmail.com

Experience Summary
Full-Time
Engineering: 8 months
Experience under licensed engineer: None



TASKS

Following my graduation in December 2021, I worked as a civil engineer supporting the analysis and design of potable water, sanitary sewer, and stormwater infrastructure projects. My responsibilities focused on hydraulic and hydrologic analysis, system sizing, and preparation of engineering calculations and technical documentation.

I performed hydraulic modeling of pressurized drinking water distribution systems using WaterCAD to evaluate system performance under existing and projected demand conditions. This included analysis of pressures, velocities, head losses, and pipe sizing to support system rehabilitation and expansion studies. I also performed gravity system analyses for sanitary sewer and pluvial drainage networks using spreadsheet based engineering calculations to evaluate flow capacity and hydraulic performance under design conditions.

On separate stormwater projects, I performed hydrologic analyses to estimate runoff and peak flows for residential, recreational, and industrial developments. Based on these analyses, I evaluated the design of detention and retention ponds to manage stormwater runoff and mitigate downstream impacts. I prepared technical calculations, model summaries, and drafted documentation memorandum.



REPRESENTATIVE PROJECTS

Yahualica González Gallo Drinking Water System Rehabilitation – Municipal drinking water system rehabilitation and capacity upgrade.

Jalisco, Mexico

December 2021 – August 2022

I evaluated the rehabilitation of the municipal drinking water system for the town of Yahualica González Gallo. My primary responsibility was the hydraulic re-evaluation of the existing pressurized water distribution network under updated population growth and demand projections. Using WaterCAD, I recalculated system pressures, flow distribution, and pipe capacities for projected future conditions and supported recommendations for system upgrades and pipe resizing.

I prepared supporting engineering calculations and plan production sets used by the project team to evaluate system performance and advance rehabilitation planning.

Stormwater and Hydrologic Analysis Projects – Hydrologic evaluation and stormwater management for mixed-use developments.

Varying locations across Mexico

December 2021 – August 2022

I performed hydrologic analyses to support stormwater management planning for a golf course, residential developments, and industrial lots. My work included estimating runoff and design flows based on projected land-use conditions, in accordance with national or state water laws. I analyzed and supported the design of detention and retention ponds to control peak discharges and manage stormwater runoff. I prepared supporting engineering calculations and drafted the technical documentation memorandum.

WORK EXPERIENCE

Kiewit Infrastructure Engineers
Querétaro (Mexico)
Drainage Engineer II
August 2022 – May 2026

Verified by
Kevin Erik Klimek
kevin.klimek@kiewit.com

Experience Summary
Full-Time
Engineering: 3 years, 9 months
Experience under licensed engineer:
3 years, 9 months



TASKS

For each project, I performed hydrologic and hydraulic analyses for existing and proposed conditions to support bridge hydraulics, floodplain evaluations, and regulatory submittals, with all work completed under the review of a Licensed Professional Engineer. My primary responsibilities included one-dimensional and two-dimensional HEC-RAS modeling to evaluate water surface elevations, velocities, and flow conveyance for multiple design events. These analyses were used to verify compliance with freeboard requirements, assess roadway overtopping potential, and evaluate impacts within FEMA-regulated floodplains and floodways.

I conducted bridge hydraulic analyses to support structure sizing and configuration, including evaluation of low-chord clearances and assessment of contraction and local scour at bridge piers and abutments. I performed scour protection and riprap sizing analyses using FHWA Hydraulic Toolbox and evaluated low-water crossings, culverts, and bridge alternatives as appropriate to site conditions.

I prepared and supported CLOMR and LOMR submittals by developing FEMA-compliant hydraulic model sets, including effective, duplicate effective, corrected effective, and pre- and post-project models. I performed floodplain and floodway analyses, including no-rise evaluations where required, and prepared technical reports and exhibits documenting modeling assumptions, methodologies, and results suitable for agency review. I also participated in stakeholder and interagency coordination meetings to explain modeling approaches and regulatory conclusions.

As projects advanced through final design and construction, I analyzed revisions to hydraulic layouts and modeling assumptions to address design changes and constructability considerations. I coordinated with roadway, structural, and construction teams and responded to drainage and hydraulic RFIs to ensure continued regulatory compliance.

I was employed as a Drainage Engineer I from August 2022 to April 2024 and as a Drainage Engineer II from April 2024 to April 2026. With increasing experience, I assumed responsibility for defined portions of hydraulic and floodplain analyses and coordinated discrete technical tasks with interns under professional supervision.



REPRESENTATIVE PROJECTS

Tuxpan Combined Cycle Power Plant – Coastal power plant intake and discharge for cooling water system.
Tuxpan, Veracruz, Mexico
August 2022 – April 2026

I modeled and drafted hydraulic analyses for a coastal power generation facility, with responsibilities that progressed over time under the review of a Licensed Professional Engineer. Early in the project, I assisted with preparation and revision of drawings, contract document updates, technical translation, and report drafting to support coordination between design and construction teams. As my experience increased, I developed and analyzed a two dimensional HEC RAS model of the coastal embayment to evaluate flow patterns and water surface elevations under coastal boundary conditions. I also created a one dimensional HEC RAS model of the cooling water system pump and coastal interface to evaluate hydraulic performance under proposed operating conditions. In addition, I supported three dimensional CFD modeling for discharge structures to evaluate localized flow behavior. During construction, I served as a point of contact for drainage and hydraulic RFIs, coordinating with licensed professional engineers to ensure field changes complied with project requirements.

Brightline West Express – High speed rail between Las Vegas and Southern California.
January 2024 – August 2024

As a Drainage Engineer, I performed bridge hydraulic analyses under the review of a Licensed Professional Engineer for existing and proposed crossings along the corridor. I developed one dimensional HEC RAS models to evaluate water surface elevations, velocities, and flow conveyance under existing and proposed conditions. I performed scour analyses for bridge abutments and piers, including contraction and local scour, and developed riprap sizing recommendations using FHWA Hydraulic Toolbox. This project required continuous coordination with roadway and structural engineering teams to ensure hydraulic assumptions and

design decisions were aligned across disciplines.

Conestee Dam Rehabilitation Project – CLOMR/LOMR package submittal

August 2024 – December 2024

I supported regulatory floodplain analyses under the review of a Licensed Professional Engineer by developing a HEC RAS one dimensional model set in accordance with FEMA requirements. This included preparation and verification of the effective model, duplicate effective model, corrected effective model, and pre and post project models. I compiled and organized all required CLOMR and LOMR documentation following FEMA MT 2 instructions to support regulatory review of proposed conditions.

Texas Facilities Commission Infrastructure Project – Drainage elements located along corridor within FEMA regulated floodplains.

October 2024 – March 2025

I performed hydraulic and floodplain analyses under the review of a Licensed Professional Engineer using two dimensional HEC RAS models developed from FEMA Baseline Engineering datasets. I evaluated existing and proposed conditions to verify compliance with allowable regulatory criteria and to maintain existing hydraulic conditions following construction. My work included analysis of proposed low water crossings, culverts, and bridge alternatives, as well as evaluation of riprap and scour mitigation measures. This effort involved close coordination with roadway and structural engineering teams and was completed under accelerated schedules due to project constraints.

Virginia Creeper Trail Rehabilitation Project – Bridge rehabilitation and floodplain compliance for a multi use trail corridor.

March 2025 – April 2026

I supported the project from initial engineering through final construction documentation under the review of a Licensed Professional Engineer. I developed one dimensional HEC RAS models for existing and proposed bridge crossings and performed bridge hydraulic analyses, scour evaluations, and riprap sizing for scour protection. I prepared technical reports documenting modeling assumptions and results and developed a FEMA compliant no rise hydraulic model demonstrating no increase in base flood elevations. I also participated in stakeholder coordination meetings to explain modeling methodology and no rise certification conclusions.

ADRIANA DAY MORALES (24-601-30)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

Start Date	End Date	Explanation
June 2016	December 2017	Graduated high school June 2016. From August 2016 to December 2017 (1.5 years) I attended the University of British Columbia, bachelor's of Applied Science. Transferred to ITESO January 2018



DEGREES EVALUATED

Institution/Degree	Country	Language	Courses
Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering 01/01/2018 — 02/01/2022	Mexico	Spanish	55

COMPARABILITY SUMMARY

Outcome: Not Equivalent

Area	Hours	Deficiency
Math/Science	30 / 32	Missing 2 hours Missing Biology or Physics
Engineering	54 / 48	None
General Education	23 / 12	None
Elective/Other	52 / N/A	None

SPECIAL NOTE

The NCEES Engineering Education Standard requires 32 college semester credit hours in Math/Science. Credits in basic sciences must include at least two courses. These courses must be in general chemistry, general calculus-based physics, or general biological sciences. The two courses may not be in the same area.

Specified Criteria Hours: 32

Course	Institution/Degree	U.S. Credits
Analytical Mechanics	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4.2
Chemistry	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	3.5
Differential Calculus	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4.2
Differential Equations	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4.2
Integral Calculus	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4.2
Linear Algebra	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4.2
Probability & Statistics	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Solid Mechanics	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8

Total semester credit hours earned: 30.10

Specified Criteria Hours: 48

Course	Institution/Degree	U.S. Credits
Building Installations	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Concrete Design	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Finite Element Analysis	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Foundation Design	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Hydraulics I	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4.2
Hydraulics II	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4.2
Maritime Engineering	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Mechanics of Porous Media	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4.2
Mechanics of Structures	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Pavement Design	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4.2
Prestressed Concrete Bridges	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Project	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4
Seismic Engineering	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Steel Design	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Structural Analysis	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Structural Project	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2
Wind Engineering	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8

Total semester credit hours earned: 53.60

Specified Criteria Hours: 12

Course	Institution/Degree	U.S. Credits
Communication Skills	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Entrepreneurship	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Globalization Studies	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	1.4
Hispanic Culture	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.1
Intercultural Studies	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	1.4
Knowledge & Culture	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Professional Ethics	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Psychology	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.1
Society & Culture	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Writing	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.1

Total semester credit hours earned: 23.10

Specified Criteria Hours: N/A

Course	Institution/Degree	U.S. Credits
Building Information Modeling	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	1.4
Computer Programming	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Concrete Technology	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	1.4
Construction Management	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Construction Regulations	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	1.4
Construction Systems I	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Construction Systems II	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Construction Techniques	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	1.4
Engineering Costs	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Geomatics	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Geotechnical Materials	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4.2
Introduction to Engineering I	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.1
Introduction to Engineering II	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.1
Professional Practice	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4.2
Simulation & Optimization	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Spatial Data & Information Management	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Structural Modeling	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	4.2
Technical Drawing	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8
Topography	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	1.4
Urban Planning	Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO / Bachelors in Civil Engineering	2.8

Total semester credit hours earned: 51.80

Total Semester Credit Hours Earned: 159

PROCESS DESCRIPTION

All education is compared to the NCEES Engineering Education Standard

The evaluation of your academic studies has been prepared to provide engineering and surveying licensing boards with the required assessment of foreign qualifications to facilitate them in determining if you qualify for licensure examination. This is an advisory report prepared based on records received and verified by the institutions issuing the degrees or qualifications. Eligibility to take the examination is determined by the licensing boards.

This report does not include the assessment of written and oral communication skills, computer skills, the quality of laboratory or field work, and the scope of design experience, which require an onsite review. Academic records (such as transcripts and catalogs) do not document qualitative factors and practical constraints to desirable outcomes.

NCEES houses a library of reference materials from around the world. These references are used for the completion of evaluations in conjunction with the NCEES Engineering Education Standard.

Post-graduate courses are ONLY used in an evaluation if they can assist in eliminating deficiencies that may be indicated in the undergraduate program.

Official Evaluations are ONLY available to state licensing boards and international exam sites through an applicant's NCEES account.

AUSTIN FULLMER (22-562-52)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/16/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
4 years

Total Engineering Experience
4 years, 9 months

Experience under licensed engineer
4 years, 9 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Geological Engineering (EAC)
University of Nevada, Reno
August 2017–May 2022

EXAMS



Fundamentals of Engineering (FE)
Nevada
February 2023

Principles and Practice of Engineering (PE)
Civil
Arizona
June 2025



LICENSES



Additional Licenses
None

WORK EXPERIENCE

Wood Rodgers, Inc.
Nevada (United States)
Assistant Engineer
November 2020 – May 2022

Verified by
David Todd Edgington
david@mountainstrata.com

Experience Summary
Part-Time
Engineering: 9 months (50%)
Experience under licensed engineer: 9 months



TASKS

I supported geotechnical and construction materials projects by performing laboratory testing in accordance with ASTM and AASHTO standards. This included grain-size analyses (sieve and hydrometer), Atterberg limits, moisture-density relationships (Standard and Modified Proctor), R-value testing, unconfined compressive strength testing on soil and rock samples, and concrete compressive strength testing. Beyond laboratory work, I applied engineering judgment to review and verify data for accuracy, perform calculations, and interpret results to meet project-specific requirements. I collaborated with project engineers and offered technical support in geotechnical analysis, while ensuring all documentation complied with specifications and applicable codes. Additionally, I participated in field explorations, including test pit logging and sampling, and performed soil classification in accordance with ASTM D2488 (Unified Soil Classification System).



REPRESENTATIVE PROJECTS

Project Name: Eagle Valley Middle School Addition
Project Location: Carson City, Nevada
Duration: November 2020 - January 2021

My Role: For this project, I collected representative soil samples and ensured all testing adhered to ASTM standards, including ASTM D6913 for grain-size analysis and ASTM D4318 for Atterberg limits. I calculated and reviewed the test results for accuracy and collaborated closely with project engineers to interpret the results and incorporate findings into design recommendations. Based on the soil characteristics and findings, I noted consideration on moisture conditioning and separation requirements during site preparation. Additionally, my role included referencing applicable standards and communicating soil behavior characteristics such as plasticity and gradation to support foundation design and grading strategies.

Project Name: Ventana Ridge
Project Location: Reno, Washoe County, Nevada
Project Duration: September 2021 - January 2022

My Role: For this project, I performed laboratory testing in accordance with ASTM standards, including grain-size analysis (ASTM D6913), Atterberg limits (ASTM D4318), and direct shear testing (ASTM D3080) to evaluate soil strength and plasticity characteristics. I assisted with geophysical field work using the Refraction Microtremor (ReMi) method to measure shear wave velocity for seismic site classification under ASCE 7 guidelines. Throughout the project, I collaborated with engineers to interpret laboratory and geophysical data, ensuring accurate characterization of subsurface conditions. These findings informed recommendations for site preparation, foundation design, and seismic considerations for the soils encountered on-site.

WORK EXPERIENCE

Wood Rodgers Inc.
Nevada (United States)
Assistant Engineer
May 2022—August 2022

Verified by
Douglas Alan Del Porto
delportodouglas@gmail.com

Experience Summary
Full-Time
Engineering: 3 months
Post EAC degree: 3 months
Experience under licensed engineer:
3 months



TASKS

I supported and assisted in civil design for public works and transportation projects, contributing to both drafting and design tasks using Civil 3D and MicroStation. My responsibilities included preparing detailed design drawings, performing quantity takeoffs, and assisting with traffic design elements. Beyond drafting, I applied engineering principles to review design details, verify quantities, and ensure compliance with project specifications and applicable standards. I collaborated closely with project engineers, providing technical support during design development and offering input to improve constructability and efficiency. In addition, I attended project meetings with clients to discuss design progress and requirements, participated in preliminary site visits to gather field data and assess existing conditions, and engaged in professional development activities to strengthen my knowledge within the civil engineering discipline.



REPRESENTATIVE PROJECTS

Project Name: Holcomb Ave Rehabilitation
Project Location: Reno, Nevada
Duration: May 2022 - August 2022

My Role: For this project, I designed the intersection layout from Sinclair Street to Holcomb Avenue and developed the roadway rehabilitation geometry for approximately three-quarters of a mile of pavement improvements. I calculated pavement widths, cross sections, sidewalk dimensions, and reviewed parcel information using survey data and city databases. I verified that these elements matched existing field conditions. I reviewed applicable municipal traffic codes and incorporated those requirements directly into the design to produce accurate and compliant construction documents.

Project Name: SR 227 High T Intersection
Project Location: Elko, Nevada
Duration: May 2022 - August 2022

My Role: For this project, I performed the geometric redesign of an existing T-intersection into a High T configuration using MicroStation, including median placement and pavement widening consistent with NDOT standards. I developed quantity takeoffs and cost estimates for the rehabilitation and expansion work using NDOT applications to verify material and construction quantities. I analyzed survey data for accuracy within the design model and evaluated grading requirements to maintain proper roadway performance.

AUSTIN FULLMER (22-562-52)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Geotechnical & Environmental
Services, Inc.

Nevada (United States)

Staff Engineer

September 2022—December 2023

Verified by

David J Salter

david.salter@ges-west.com

Experience Summary

Full-Time

Engineering: 1 year, 3 months

Post EAC degree: 1 year, 3 months

Experience under licensed engineer:
1 year, 3 months



TASKS

As an Assistant Project Manager/Staff Engineer, I managed and executed subsurface investigations to support the design and construction of commercial and residential development projects. My responsibilities included coordinating drilling and test pit operations, overseeing sampling activities, and performing laboratory testing in accordance with ASTM standards, such as grain-size analysis, Atterberg limits, and direct shear testing. I also assisted with geophysical practices, including Refraction and ReMi testing, to determine shear wave velocity for seismic site classification.

I routinely analyzed laboratory data to interpret critical soil properties, including shear strength, consolidation, and classification.

Using both field and lab results, I performed engineering analyses such as settlement evaluation, bearing capacity calculations, and lateral earth pressure assessments for retaining wall design. I also developed pavement sections for flexible and rigid systems based on geotechnical parameters to ensure long-term performance.

My foundation design experience included shallow spread footings, mat slabs, and ground improvement approaches tailored to challenging subsurface conditions. I prepared technical reports summarizing site data, engineering findings, and design recommendations, ensuring alignment with current standards and best practices.



REPRESENTATIVE PROJECTS

Project Name: TRIC 181

Project Location: USA Parkway, Sparks Nevada

Duration: November 2022 - February 2023

My Role: For this project, I evaluated the design of a 500,000-square-foot warehouse planned for construction in Sparks, Nevada. I led and coordinated the geotechnical exploration and site reconnaissance to assess soil conditions, geological features, and potential risks. The exploration program included advancing solid stem and hollow stem auger borings, as well as mud rotary drilling to obtain rock cores for detailed analysis. I assigned and reviewed laboratory testing in accordance with ASTM standards, including sieve analysis, Atterberg limits, and direct shear testing, to determine key engineering properties. In addition, I assisted with slope stability modeling using Slide2 software to evaluate safe excavation conditions and performed RQD analysis on rock cores to characterize subsurface integrity beyond the planned footing depths. Based on these findings, I developed earthwork recommendations addressing site preparation, trench excavation, backfill requirements, foundation design, and rippability assessments to guide equipment selection. Throughout the project, I collaborated with engineers, geologists, and laboratory personnel to meet design objectives while maintaining compliance with applicable construction codes and specifications.

Project Name: Stonebrook Elementary School

Project Location: Sparks, Nevada

Duration: December 2022 - May 2023

My Role: For this project, I led the geotechnical investigation for the Stonebrook Elementary School project in Sparks, Nevada. I directed and executed the field exploration program, which included hollow-stem and solid-stem augering to characterize subsurface conditions. I applied engineering judgment to determine appropriate sampling methods to include Standard Penetration Tests (SPT) and Shelby tube samples. This sampling representative data across all critical depths. I assigned and supervised laboratory testing to establish soil properties and classifications, including strength, compressibility, and moisture characteristics. Based on field and laboratory results, I performed engineering analyses to develop construction recommendations, including footing design parameters, allowable soil bearing capacities, anticipated settlement effects on foundations, and potential over excavation requirements. I provided specifications for structural fill and import material, grading recommendations, and calculated lateral and vertical soil pressures for foundation design, ensuring compliance with local construction standards and public works criteria. My role required independent decision-making and technical oversight throughout the investigation and reporting phases, ensuring that design recommendations supported safe and efficient

construction practices.

Project Name: Red Barn Car Wash

Project Location: Carson City, Nevada

Duration: September 2022 - November 2022

My Role: For this project, I led the geotechnical investigation for pavement reconstruction at a local car wash. I coordinated and executed the field exploration, which included asphalt coring and hand auger sampling at strategic locations where cracking, settlement, and pavement failure were observed. These efforts provided subgrade, aggregate base, and soil samples for laboratory analysis. I assigned and reviewed testing in accordance with ASTM standards, including sieve analysis and Atterberg limits, to evaluate material properties and inform design decisions. Using the data collected, I developed pavement design recommendations that addressed loading conditions, freeze-thaw considerations, and long-term performance. My recommendations included pavement cross sections, aggregate base specifications, and thickness requirements tailored to site conditions. Throughout the project, I collaborated with the owner, laboratory team, and lead engineer to ensure accuracy and integrity in engineering analyses and deliver solutions aligned with project objectives and applicable standards.

WORK EXPERIENCE

Southwest Gas Corporation
Arizona (United States)
Engineer II
January 2024—July 2026

Verified by
Elton Lamce
elton.lamce@swgas.com

Experience Summary
Full-Time
Engineering: 2 years, 6 months
Post EAC degree: 2 years, 6 months
Experience under licensed engineer:
2 years, 6 months



TASKS

As an Engineer at Southwest Gas Corporation, I managed and executed engineering design and construction activities supporting corrosion mitigation and cathodic protection systems for steel natural gas pipelines throughout the greater Phoenix area. My responsibilities included developing project scopes, coordinating construction schedules, and overseeing field implementation to ensure compliance with company standards, applicable codes, and regulatory requirements. I routinely collaborated with contractors and management including Operations, Maintenance, and Compliance to align project objectives while maintaining strict safety and reliability standards.

I routinely reviewed and applied technical standards and design guidelines in accordance with state and municipal codes to support civil and utility engineering practices. My responsibilities included evaluating regulatory requirements and industry standards to ensure engineering recommendations and field practices were aligned with applicable codes and best practices. I also assessed emergency response systems across the greater Phoenix metropolitan area, evaluating operational performance, system constraints, and feasibility to ensure safe operating conditions for all applicable infrastructure. These efforts supported reliable system operation while informing engineering decisions related to risk mitigation, constructability, and long-term system performance.

Engineer I from Jan 2024 - Feb 2026, Engineer II from Feb 2026 - Present



REPRESENTATIVE PROJECTS

Project Name: Intel Ocotillo AC Mitigation
Project Location: Intel Ocotillo Campus, Chandler, Arizona
Duration: January 2025 - April 2026

For this project, I managed the design and construction of approximately 7,000 linear feet of grounding cable installed to mitigate alternating current (AC) corrosion on underground utility systems supporting a major industrial campus. I led preliminary evaluations and scope development efforts, including field reconnaissance and constructability assessments, to define access requirements, material needs, permitting constraints, and coordination with multiple governing agencies. Construction activities included survey-controlled installation using open trench and horizontal directional drilling (HDD) methods to achieve precise alignment and continuity of the grounding system.

Throughout construction, I provided engineering oversight by coordinating field activities, reviewing partial as-built submittals, and reconciling field documentation with installed quantities and invoicing. I worked closely with contractors to manage construction schedules, budget constraints, and installation sequencing while ensuring compliance with applicable engineering standards and company specifications. In addition, I collaborated with engineers, construction crews, and municipal inspectors to resolve field issues, maintain quality control, and achieve project objectives while meeting design intent and construction requirements

Project Name: New Groundbed Installation M511
Project Location: 910 W Turney Ave, Phoenix, Arizona
Duration: November 2024 - June 2025

For this project, I designed and managed the installation of a new cathodic protection groundbed system to support steel natural gas pipelines within the local gas distribution network and prevent accelerated corrosion. I conducted site reconnaissance and evaluated existing field conditions, utility conflicts, and system integrity to support system feasibility and constructability. These efforts included reviewing applicable local codes, utility standards, and installation requirements to ensure compliance and safe integration with existing infrastructure.

As part of the design process, I evaluated the impacts of the deep well groundbed system in coordination with the Arizona Department of Water Resources, performing due diligence to address potential groundwater and nearby aquifer considerations. The system was designed in accordance with applicable environmental quality standards and regulatory requirements to ensure long-term performance and environmental protection. Throughout construction, I coordinated closely with contractors, engineers, city inspectors, and design professionals to communicate design deviations and address changes in landscape features and field conditions. I provided ongoing engineering support during installation to ensure the cathodic protection system was constructed as intended and successfully installed to support the natural gas facilities while meeting project objectives and construction standards.

WORK EXPERIENCE

Nevada Air National Guard
Nevada (United States)
Civil Engineering Officer
December 2024—July 2026

Verified by
Douglas Alan Del Porto
delportodouglas@gmail.com

Experience Summary
Part-Time
Engineering: 5 months (25%)
Post EAC degree: 5 months (25%)
Experience under licensed engineer: 5 months



TASKS

With the Nevada Air National Guard Civil Engineering Squadron, I supported sustainment operations by assisting with coordination, project management, design drafting, and cost estimating for a variety of civil and construction projects. My duties included managing construction activities and leading small groups on facility improvements and infrastructure maintenance. I contributed to design development by preparing drafting materials, reviewing design details, and verifying quantities and material requirements. I helped develop project scopes, schedules, and budgets while coordinating with contractors, project teams, and base personnel to ensure work met technical standards and mission needs. I supported construction oversight by addressing field questions, monitoring progress, and ensuring compliance with specifications and safety protocols. I also participated in project meetings, conducted site visits to assess existing conditions, and engaged in professional development to strengthen my civil engineering knowledge.



REPRESENTATIVE PROJECTS

Project Name: Various Civil/Construction Projects on Nevada Air National Guard Installation
Project Location: Reno, Nevada
Duration: December 2024 - December 2025

For these projects, I reviewed system replacement options and other facility upgrade proposals by analyzing equipment performance, identifying deficiencies, and reviewing compliance with project requirements and applicable standards. I reviewed design documents and calculated preliminary cost estimates to verify that proposed solutions were technically appropriate and constructible. I assessed existing site conditions for civil projects such as parking lot expansions, physical training track rehabilitation, and hangar improvements, and I reviewed drawings for grading, constructability, and compliance with applicable criteria. I developed technical scopes, preliminary schedules, and material quantity evaluations, and I analyzed field conditions during construction to address technical questions and review completed work against specifications to verify that engineering requirements were met.

EDUARDO GAMEZ (18-797-45)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
07/07/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
5 years, 11 months

Total Engineering Experience
5 years, 11 months

Experience under licensed engineer
5 years, 11 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering (EAC)
California State University, Long Beach
August 2014–May 2018

Masters in Civil Engineering
California State University, Long Beach
August 2018–August 2020

EXAMS



Fundamentals of Engineering (FE)
California
March 2018

Principles and Practice of Engineering (PE)
Civil
California
May 2025

LICENSES



Additional Licenses
None

WORK EXPERIENCE

USDA, Natural Resources
Conservation Service (NRCS)
California (United States)
Nevada Team Engineer
July 2020—June 2026

Verified by
Douglas Robert Higbee
doug.higbee@usda.gov

Experience Summary
Full-Time
Engineering: 5 years, 11 months
Post EAC degree: 5 years, 11 months
Experience under licensed engineer:
5 years, 11 months



TASKS

Planning, designing, and certifying engineering projects on private land with agricultural commodities are the main tasks in the Team Engineer position with USDA NRCS. Planning consists of selecting and evaluating the feasibility of an engineering conservation practice to address a natural resource concern, such as the implementation of irrigation system improvements, erosion control measures, or structures for water control. Verifying the feasibility of a practice may include hydraulic calculations, GNSS surveying, soil analysis based on results collected by peers, hydrological analysis of watersheds, or other relevant measures. To assist with the implementation of a conservation engineering practice, designing a system may include hydraulic calculations for irrigation or livestock projects, structural analysis for reinforced concrete water control structures, or other relevant calculations based on the conservation practice. An engineering drawing using CAD is then drafted by the Team Engineer for the landowner to implement the practice. After the private landowner or contractor implements the design, certification of the conservation practice is verified using various instruments, depending on the practice. A GNSS survey may be used to document a pipeline footprint or a concrete structure; the survey is then used to create an As-Built drawing or to analyze the finished product through calculations. Project management is a major task, as multiple projects are ongoing, each in a different phase between planning, designing, and constructing. Internal and external engineering design reviews for conservation projects are also common for a Team Engineer. This task includes calculation reviews - hydraulic calculations are common in California and Nevada - and CAD design reviews to ensure project designs follow USDA NRCS standards and specifications.



REPRESENTATIVE PROJECTS

Due to the nature of NRCS work, I have been involved in numerous projects with varying scopes of work. I'm currently involved in 50+ projects, some in need of designs, others in construction phase. Practices may include livestock watering systems, irrigation systems, erosion control, stream bank protection, etc.

Chang-Ho Kim, Irrigation System
October 2020 – March 2022

The first project I completed was a microirrigation system in Victorville, CA for a vegetable farm that required pump, pipeline, and drip emitter replacements. I was tasked to size a pump, configure irrigation pipelines, and select adequate emitters based on hydraulic calculations conducted using various NRCS-developed design tools. I drafted the pump, pipeline, and emitter selections in Civil3D using a USDA template. Once implemented, I conducted a GNSS survey and field inspection to verify the system was installed to specifications. I completed an as-built drawing using Civil3D, along with field notes and photos to finalize the certification.

Pine Cone Family LTD, Access Road
July 2020 – December 2024

I designed a project, originally planned in 2020 by a previous engineer, consisting of erosion control for forested private land in Crestline, CA. An access road was planned through the forest to allow a faster route for emergencies. My design of the access road relied heavily on GNSS surveys and LiDAR data. I conducted multiple GNSS surveys for possible access road paths; feedback from the Forest Service required avoidance of tree species. Multiple stream crossings required armoring with riprap for heavy vehicle loads; to evaluate the size and depth of the stream crossing, I performed hydrological computations using USDA-developed tools for a 25-year storm, based on NOAA data. I used LiDAR in ArcGIS and Civil3D to create a surface for possible road paths. Once stream crossings were sized and the road path was finalized, I compiled an engineering package that included USDA engineering conservation practice standards, specifications, Civil3D drawings, operation and maintenance, calculations, and implementation requirements. I delivered the packet to the landowner and contractor during a site meeting for construction. I moved to Nevada and was not able to see the implemented design.

Emergency Watershed Protection (EWP) Program, Disaster Recovery

August 2024 – December 2024

Late 2024, I took a temporary assignment as Area Engineer, supervisor to NRCS Team Engineers. As Area Engineer, covering the area between Inyo/Kern County to the southern border, the Emergency Watershed Protection (EWP) program was my primary duty with multiple 2024 fires. One local agency I worked with was Santa Barbara County near Los Olivos to implement a trash rack on a waterway to reduce heavy debris flow after the Lake Fire. Tasks included site visits with GNSS surveys, conducted by me, to analyze the feasibility and location for the steel rack upstream of the town of Los Olivos. I reviewed the County's engineering design and hydrologic calculations to ensure the design met USDA standards. After approving the design, I was tasked to create a Damage Survey Report (DSR) that included site evaluations with field notes, my analysis of possible damage using BAER and WERT reports, the finalized engineering design, and my cost-benefit analysis. The time frame for the county and the shift in the fiscal year for USDA resulted in the project not being funded. Other EWPP projects I was involved in included the Bridge Fire and Line Fire, all of which required design analysis, calculation analysis, and the DSR report I developed for the towns of Wrightwood, Mt Baldy, and Highland, CA.

Walker River Irrigation District (WRID), Irrigation Flume

March 2025 – February 2026

The WRID was in need of a water measuring structure for their Campbell Canal, located in Yerington, NV. The system was designed and implemented prior to my involvement; I was tasked to certify the implemented project. The certification process relied heavily on GNSS surveys that I conducted for structure and water elevations. I used the survey to conduct a hydraulic analysis using USDA's WinFlume software to verify the capacity of the installed flume. After analysis, I drew an as-built using Civil3D to show dimensions and elevations of the infrastructure. The final certification documents included my calculations, my as-built, my field notes, and my photo documentation showing that the project met NRCS standards.

HAILEE HAYES (22-303-54)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/12/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
4 years

Total Engineering Experience
4 years

Experience under licensed engineer
4 years

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering (EAC)
Oregon State University
September 2018–June 2022

EXAMS



Fundamentals of Engineering (FE)
Oregon
May 2022

Principles and Practice of Engineering (PE)
Civil
Nevada
March 2024



LICENSES



Additional Licenses
None

WORK EXPERIENCE

Kimley-Horn
Nevada (United States)
Civil Analyst
July 2022—July 2026

Verified by
Treasea Wolf
Treasea.wolf@kimley-horn.com

Experience Summary
Full-Time
Engineering: 4 years
Post EAC degree: 4 years
Experience under licensed engineer: 4 years



TASKS

As a Civil Analyst at Kimley-Horn I work in the Development Services department, which focuses on land development of various kinds. I was introduced to Kimley-Horn during an internship with a contractor in Las Vegas, and was offered the Civil Analyst position during my senior year at Oregon State. Since being a college hire, I have spent all 4 years in this position at Kimley-Horn. I have been responsible for plan design and production (2D and 3D civil design experience), project management tasks, client coordination, and marketing efforts. These efforts include technical CAD skills, running and attending meetings, completing deliverables, attending networking events. I am a member of the NAIOP Southern Nevada chapter and sit on their Spotlight Awards Committee.



REPRESENTATIVE PROJECTS

Project: Brooks North Las Vegas (2022-2025)
Location: North Las Vegas
Type: Industrial

Brooks North Las Vegas is an industrial site located in the southwest corner of Brooks Avenue & Clayton Street in the City of North Las Vegas jurisdiction. It is a single 190,300 sf warehouse on 10 acres. On this project I designed the utilities, including the domestic/fire water lines, sewer line, storm drain, as well as a temporary fire hydrant used during construction. I calculated the inverts, slopes, and crossings of all mentioned utilities. I designed the Fire Control Plan and Traffic Control Plan for this site. During construction of this project I also attended several on-site meetings to discuss and recommend solutions to field challenges, including footing conflicts and existing utility relocations.

****Since I have been a part of the program since 2022 I have experience working on 25+ Chick-Fil-A sites. Not all of these sites went to construction, I highlighted a few that I was a part of from Due Diligence to Opening. My design experience on CFAs has grown from site layout, to utility calculations, to now complete site design and project management.**

Project: Chick-Fil-A - Rome & N 5th (2022-2025)
Location: North Las Vegas
Type: Commercial

Chick-Fil-A Rome & North 5th is a commercial, fast food site located in the southwest corner of Rome Boulevard and North 5th street in the City of North Las Vegas jurisdiction. It is a single 5000 sf restaurant building with a drive-thru on 1.6 acres. This project was a part of a larger 4 acre commercial development. On this project I designed the utilities, including the domestic/fire water lines and sewer line. I calculated the inverts, slopes, and utility crossings on this site. I also designed site plan changes that resulted from landlord coordination with the adjacent sites.

Project: Chick-Fil-A - 3800 South & Constitution (2024-2026)
Location: West Valley City, Utah
Type: Commercial

Chick-Fil-A 3800 South & Constitution is a commercial, fast food site located in the southeast corner of 3800 South and Constitution Boulevard in the West Valley City jurisdiction. It is a single 5,600 sf restaurant building with a drive-thru on 1.5 acres. I designed the engineered site plan, the utilities, and the surface on this site. I designed the public access and the ADA accessibility. I designed the fire/domestic water lines, the sewer line, and the storm drain. I calculated the inverts, slopes, and utility crossings on this site. I calculated and designed the drainage pattern and graded the surface elevations. On this site I also led client meetings and coordination.

Project: Chick-Fil-A - Moscow (2024-2026)

Location: Moscow, Idaho

Type: Commercial

Chick-Fil-A Moscow is a commercial, fast food site located in between Pullman Road and Palouse Place Mall in the City of Moscow jurisdiction. It is a single 5,300 sf restaurant building with a drive-thru on 1.2 acres. I designed the engineered site plan, the utilities, and the surface on this site. I designed the public access and the ADA accessibility. I designed the fire/domestic water lines, the sewer line, and the storm drain. I calculated the inverts, slopes, and utility crossings on this site. I calculated and designed the drainage pattern and graded the surface elevations. On this site I also led client meetings and coordination.

Project: Hard Rock Hotel Resort Pool (2025-ongoing)

Location: Clark County, Nevada

Type: Resort & Casino

The Hard Rock Hotel is a Casino Resort project that is replacing the Mirage on the Las Vegas Strip in the Clark County jurisdiction. The Resort Pool is located in the southwest corner of this site. It has four pool buildings, a restaurant, around 40 cabanas and several pools/spas on 6.0 acres of previously developed land. I am designing the storm drain, sewer, and water on this site. I have calculated the slopes, inverts, and utility crossing. I chose to include it due to the complexity of this site. There is a great deal of coordination necessary on this project and other utilities needed for pool operations, making it the most extensive utility design I have worked on. I have led several coordination meetings with partners on this project to ensure all piping will have proper spacing, clearances, and connection locations.

GENERAL

SUMMARY



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/17/2026

Citizenship
India



Engineering Experience after EAC degree

Total Engineering Experience
8 years, 11 months

Experience under licensed engineer
3 years, 4 months

Disciplinary Action
None reported



EDUCATION



Meets NCEES Engineering Education Standard

Bachelors in Civil Engineering
University of Pune - Savitribai Phule Pune University
August 2009–May 2013

Masters in Civil Engineering - Environmental & Water Resources Engineering
University of Pune - Savitribai Phule Pune University
June 2014–August 2016



EXAMS



Fundamentals of Engineering (FE)
California
May 2025

Principles and Practice of Engineering (PE)
Civil
California
November 2025

LICENSES



Additional Licenses
None

WORK EXPERIENCE

Mott Macdonald
Maharashtra (India)
Graduate Engineer - Hydraulic
Modelling
December 2016—August 2018

Verified by
Mayank Mehta
mayank.mehta@mottmac.com

Experience Summary
Full-Time
Engineering: 1 year, 8 months
Experience under licensed engineer:
1 year, 8 months

TASKS

My engineering experience with Mott MacDonald was in the field of Water Resources Engineering, with a specialization in hydraulic modeling for flood risk assessment, floodplain mapping, reservoir breach analysis. I worked on projects for the Environment Agency (UK) and the Office of Public Works (Ireland), supporting the development, review, and application of one-dimensional (1D) and coupled one-dimensional/two-dimensional (1D/2D) hydraulic models using Flood Modeller Pro and ESTRY-TUFLOW.

I began as a Graduate Engineer responsible for hydraulic model development, simulation, calibration and flood risk analysis. My duties included updating and extending existing hydraulic models, developing new linked 1D/2D models from survey and LiDAR data, incorporating hydraulic structures such as bridges, culverts, embankments, reservoirs, and flood defenses, and performing simulations for design events and sensitivity testing. I evaluated model outputs including flood extents, depths, arrival times, and hazard mapping to support flood risk assessments and reservoir breach studies.

As my experience progressed, I prepared task sheets and method statements and delegated modeling tasks to junior team members. I worked closely with senior engineers and project teams, while all final engineering decisions, recommendations, and deliverables were reviewed and approved by the Supervising Engineer.

REPRESENTATIVE PROJECTS

1) River and Coastal Flood Risk Appraisal Projects, United Kingdom and Ireland - Hydraulic flood risk assessment to evaluate fluvial and tidal flooding impacts and support flood risk assessment. (2016–2017)

I supported several flood risk appraisal projects, including studies for River Ash, River Clyst, Newlyn and Penzance. My responsibilities included updating existing linked 1D/2D hydraulic models using new survey information, incorporating revised hydrologic data, and evaluating present and future flood risks under various scenarios. I analyzed the impacts of infrastructure improvements, flood defense enhancements, road construction, maintenance strategies, and embankment degradation on flood behavior. I made decisions regarding model updates, scenario development, and interpretation of simulation results. Deliverables included flood depth grids, flood extent mapping, hydraulic model outputs, and technical summaries documenting model changes, assumptions, and findings.

2) Green Park Flood Risk Assessment, Ireland - Fluvial and tidal flood risk assessment for a proposed development using detailed 1D/2D hydraulic modeling. (2017–2018)

I contributed to a flood risk assessment for a proposed development near Green Park Racecourse by developing a detailed linked 1D/2D hydraulic model of Ballinacurra Creek. Using survey and LiDAR data, I incorporated hydraulic structures including bridges, culverts, and flood defenses to accurately represent fluvial and tidal flood processes. I exercised engineering judgment in evaluating available topographic and structural information and determining appropriate hydraulic representations within the model. The completed model provided flood level and flood extent information used to assess development impacts and support planning decisions.

3) Reservoir Flood Mapping Program, United Kingdom - Dam breach and reservoir inundation analysis to assess downstream flood hazards and support emergency planning. (2017–2018)

As part of a nationwide reservoir flood mapping initiative, I developed broad scale 2D hydraulic models for eleven reservoirs to evaluate flood risks associated with dam breach scenarios. My responsibilities included analyzing terrain data, identifying critical hydraulic controls such as culverts, embankments, and transportation corridors, and assessing the potential impacts on downstream receptors. I evaluated multiple breach conditions, including dry-day, wet-day, and fluvial scenarios, and made decisions regarding model representation of key flow pathways and flood routing. The resulting analysis were used to determine maximum flood depths, flood arrival times, inundation extents, and hazard classifications. My deliverables included technical mapping products and summary sheets that informed emergency planning and reservoir risk management.

4) Stevenage Brook and Aston End Brook Flood Risk Assessment, UK - Hydraulic modeling and flood risk assessment to

evaluate floodplain inundation and support flood risk assessment. (2017–2018)

I supported the Environment Agency's flood risk assessment for Stevenage Brook and Aston End Brook by reviewing and updating an existing hydraulic model and developing a new linked one-dimensional/two-dimensional (1D/2D) hydraulic model using Flood Modeller Pro and TUFLOW. My responsibilities included preparing project task sheets and method statements, evaluating the existing model structure, extending the river network, and converting a 1D-only model into a coupled 1D/2D model. I made engineering decisions regarding model configuration, representation of floodplain flow paths, and the incorporation of three offline reservoirs within the hydraulic system. I performed simulations for design storm events, sensitivity analysis, and undefended flood scenarios. My work products included hydraulic model files, flood extents, water level outputs, and technical results used to support flood risk management decisions.

WORK EXPERIENCE

AtkinsRealis
Karnataka (India)
Graduate Engineer
September 2018—May 2021

Verified by
Christine Dear
hardwick.christine@gmail.com

Experience Summary
Full-Time
Engineering: 2 years, 8 months
Experience under licensed engineer:
None

TASKS

My branch of engineering is Civil Engineering, with a specialization in Water Resources and Environmental Engineering. At Atkins, I worked on hydraulic and hydrologic modelling for major infrastructure and flood risk management projects. My experience involved undertaking 1D/2D linked hydraulic modelling using TUFLOW-ESTRY, Flood Modeller, and HEC-RAS to assess complex river diversions, floodplain behavior, flood risk, and mitigation measures for infrastructure and residential development projects. I developed and updated hydraulic models to simulate river and floodplain hydraulics under a range of design and blockage scenarios. My responsibilities included defining model extents, selecting modelling methodologies, configuring initial and boundary conditions, assigning Manning's roughness values based on land use and terrain characteristics, and representing hydraulic structures such as bridges, culverts, flood storage areas, and gate control systems. I also established standardized methodologies for blockage assessments across multiple sites to quantify flood risk and assess infrastructure resilience.

As my experience progressed, I assumed greater responsibility for independently applying engineering judgement in model development, parameter selection, GIS analysis, and interpretation of hydraulic behavior and flood impacts. I carried out climate change assessments, sensitivity analysis, and model stability checks including mass balance, volume balance, and convergence checks, to support robust design outcomes. I assessed the hydraulic impacts of proposed developments against project-specific flood risk and compliance criteria and evaluated mitigation options to achieve "no impact" outcomes. This included refining culvert sizing, flood wall heights, flood storage requirements, and operational gate control rules. I also prepared flood depth, hazard, and inundation mapping products and contributed to technical reports to support project approvals. Throughout my employment, I worked closely with senior engineers and project teams, while all final engineering decisions, recommendations, and deliverables were reviewed and approved by the Supervising Engineer.

REPRESENTATIVE PROJECTS

1) K2 Inundation Study, Canada: Flood risk and dam breach assessment for a mining site, including evaluation of inundation extents and mitigation measures. (2018-2019)

For the K2 Inundation Study in Canada, I carried out hydraulic modelling and inundation assessments to evaluate flood risk associated with potential dyke breaches surrounding a mine site. Using HEC-RAS software, I developed and simulated breach scenarios for five ponds and assessed flood impacts under both dry and wet conditions. I also developed a database for approximately 500 culverts used within the hydraulic analysis. My responsibilities included analysing flood inundation extents, identifying areas at risk within industrial and reservoir areas, and assessing mitigation options to reduce flood impacts. I prepared flood inundation and depth difference mapping products and contributed technical analysis to support project decision making and risk assessment activities.

2) Purple Line – POI8, USA: Hydraulic and flood risk assessment for a rail infrastructure project evaluating existing and post-development conditions and associated mitigation measures. (2018-2019)

For the Purple Line POI8 project in the United States, I carried out hydraulic modelling to assess changes in flood risk associated with a proposed infrastructure development. I updated the baseline hydraulic model and developed a post-development 1D/2D linked HEC-RAS model to evaluate the impacts of the proposed works on flood behavior and floodplain conditions. My responsibilities included defining modelling parameters, interpreting flood impact results, assessing changes in flood extents and depths, and supporting the preparation of technical documentation and reporting. My engineering decisions focused on identifying areas of increased flood risk and evaluating compliance with project flood criteria.

3) Wessex Trash Screen – England, UK: Flood risk assessment involving trash screen blockage scenario modeling for multiple assets. (2019-2020)

For the Wessex Trash Screen project in the United Kingdom, I performed hydraulic modelling to assess flood risk associated with blockage scenarios at trash screen assets across multiple river systems. The project involved testing blockage conditions for approximately 43 assets within 17 hydraulic models. I was responsible for developing and applying a standardized methodology

for blockage assessments across 11 models using Flood Modeller-TUFLOW software. My work included configuring blockage scenarios, assessing resulting flood extents and impacts on nearby properties, interpreting hydraulic results, and verifying model stability and performance. I also supported and trained a graduate engineer in hydraulic modelling workflows and contributed to the successful delivery of modelling outputs within project budget and schedule requirements.

4) Tywi Valley Path – Wales, UK: Flood risk assessment for a new cycle path, including river modeling and assessment of bridges and culverts. (2019-2020)

For the Tywi Valley Path scheme in the United Kingdom, I contributed to hydraulic modelling assessments for a proposed 15 km cycle path between Carmarthen and Ffairfach. I updated and calibrated a detailed 1D/2D linked HEC-RAS hydraulic model for the Afon Cothi and Afon Tywi river systems to assess baseline and post-development flood conditions. My responsibilities included evaluating the hydraulic impacts of proposed bridges, culverts, and floodplain modifications associated with the scheme. I analysed model outputs to identify areas where the proposed works could increase flood risk and assessed mitigation measures to minimise adverse impacts. My work supported the flood risk assessment process and informed design decisions for the proposed infrastructure.

5) Heathrow Expansion Project – London, UK: Flood risk assessment for airport expansion, including river diversions and flood storage design. (2020-2021)

For the Heathrow Expansion Project in the United Kingdom, I supported hydraulic modelling assessments associated with proposed runway expansion works and river diversions. Using a linked Flood Modeller-TUFLOW model, I assessed the hydraulic impacts of proposed flood storage areas, river diversions, and gate control operations under various storm events and design scenarios. My responsibilities included updating hydraulic models, assessing downstream flood impacts, evaluating mitigation measures, and applying gate control rules to reduce adverse impacts and achieve “no increase in flood risk” compliance objectives. I interpreted model results to support engineering recommendations regarding flood storage sizing and operational performance of mitigation infrastructure.

WORK EXPERIENCE

Jacobs
Maharashtra (India)
Deputy Engineer
May 2021 – April 2024

Verified by
Benjamin Mason
bmmas20@gmail.com

Experience Summary
Full-Time
Engineering: 2 years, 11 months
Experience under licensed engineer:
None

TASKS

My major branch of engineering is Civil Engineering, with a specialization in Water Resources and Environmental Engineering. At Jacobs, my role focused on hydraulic and hydrologic modelling for rail infrastructure and floodplain management. My experience primarily involved supporting major rail upgrade and level crossing removal projects through hydraulic assessment of proposed infrastructure and flood mitigation works using 1D/2D TUFLOW modelling. I developed, updated, and refined hydraulic models in accordance with Australian Rainfall and Runoff Guidelines Version 4.1 and local floodplain management requirements. My responsibilities included defining model extents, mesh resolution, boundary conditions, inflow data, Manning's roughness values, and hydraulic structure representation, including culverts, bridges, drainage systems, and flood protection elements. I carried out fluvial and rain-on-grid simulations, assessed model stability and performance, and interpreted results to identify flood impacts and overland flow behavior.

As my experience developed, I took on greater responsibility for independently selecting modelling methodologies based on floodplain characteristics and project requirements. I assessed proposed rail infrastructure, including capping layers, shared user paths, and flood protection works, against applicable flood immunity and freeboard, applying engineering judgement to evaluate adverse hydraulic impacts. Where impacts were identified, I developed and assessed mitigation and design modification options, including culvert resizing, drainage layout refinements, adjustments to crest elevations and flood wall heights, and modifications to structural configurations to achieve compliant "no adverse impact" outcomes. I also undertook sensitivity analysis and climate change impact assessments to support resilient and risk-informed infrastructure design. In addition, I carried out post-processing and verification of model outputs and prepared technical report sections, flood mapping, and engineering documentation to support project approvals and multidisciplinary coordination. Throughout my employment, I worked closely with senior engineers, designers, and project managers, while all engineering decisions and final deliverables were reviewed and approved by the Supervising Engineer.

REPRESENTATIVE PROJECTS

1) Regional Rail Revival – South Geelong to Waurin Ponds – Flood Risk Assessment & Mitigation Analysis for rail corridor upgrades. (2021 - 2022)

For the Regional Rail Revival – South Geelong to Waurin Ponds project in Australia, I supported a high-level hydrology and flood risk assessment for the rail corridor between South Geelong and Waurin Ponds. Using TUFLOW with ESTRY culvert modelling, I developed hydraulic models for existing conditions and assessed flood risks associated with multiple design and climate change scenarios. My responsibilities included analysing flood behaviour, assessing rail corridor flood immunity for the 1% Annual Exceedance Probability event, evaluating mitigation options, and preparing flood mapping and technical reporting outputs. I interpreted modelling results to identify flood risks, assess infrastructure performance, and support flood-resilient rail design considerations.

2) New Commuter Train - Abey Road Hydraulic Model, Australia - Flood Risk Assessment & Mitigation Analysis for new commuter rail infrastructure. (2022 - 2023)

For the New Commuter Train – Abey Road Hydraulic Model project in Australia, I undertook hydraulic modelling to assess flood impacts associated with a proposed rail extension along the Melton rail corridor. I developed and analysed existing and post-development hydraulic models using TUFLOW-ESTRY software to evaluate the hydraulic impacts of the proposed rail infrastructure. My work included model setup, result interpretation, flood mapping, post-processing, and preparation of technical outputs to support flood risk assessments and design development. I assessed changes in flood behavior and supported engineering decisions related to mitigation and flood impact management.

3) Jam Jerrup Rain on Grid Modelling, Australia - Flood Risk Assessment. (2022 - 2023)

For the Jam Jerrup Rain-on-Grid Modelling project in Australia, I performed hydraulic modelling for Melbourne Water to assess the influence of tidal gate operations on flooding adjacent to Western Port Bay and Bay Road Drain. My responsibilities included confirming contributing catchment areas, developing hydraulic models for multiple tidal and storm scenarios, and assessing flood

behaviour under varying tidal conditions. I analysed modelling outputs to identify flood impacts and support understanding of tidal influences on local flooding conditions. My work contributed to technical assessments used to support flood management planning within the study area.

4) South Dynon Rail Upgrades, Australia – Flood risk assessment and mitigation analysis supporting major rail corridor upgrades. (2022 - 2023)

For the SEPA South Dynon project in Australia, I contributed to flood risk assessments associated with rail system upgrades and stabling yard improvements. I developed and refined hydraulic models for the Moonee Ponds Creek and Maribyrnong River systems using TUFLOW with ESTRY culvert representation to assess overland flood risk for both existing and proposed design conditions. My responsibilities included hydraulic model development, interpretation of flood impacts, flood mapping, post-processing, and technical reporting. I assessed the hydraulic impacts of proposed infrastructure upgrades and supported the evaluation of mitigation measures to reduce adverse flooding impacts on the rail yard and surrounding areas.

5) SEPA Level Crossing Removal-Bedford Road, Australia – Flood risk assessment and development of mitigation measures for rail infrastructure improvements. (2022 - 2023)

For the SEPA Level Crossing Removal – Bedford Road project in Australia, I performed hydraulic modelling to assess flood impacts associated with proposed rail level crossing removal and rail infrastructure upgrades for the Level Crossing Removal Authority (LXRA). Using TUFLOW-ESTRY software, I updated and refined existing and design hydraulic models to assess floodplain impacts resulting from the proposed infrastructure. My responsibilities included configuring model inputs and hydraulic structures, analysing flood behavior under existing and post-development conditions, interpreting modelling results, and undertaking post-processing and flood mapping. I assessed compliance with project-specific flood immunity and freeboard requirements for rail capping layers, shared user paths, rail trench flood walls, and associated infrastructure. I also contributed to identifying and assessing mitigation measures to minimise adverse flood impacts and prepared technical outputs and report sections to support project approvals and design development.

WORK EXPERIENCE

Prairie Engineers
Illinois (United States)
Water Resources Modeler
October 2024—June 2026

Verified by
Nathen Edward Leach
nleach@prairieengineers.com

Experience Summary
Full-Time
Engineering: 1 year, 8 months
Experience under licensed engineer:
1 year, 8 months



TASKS

My major branch of engineering is Civil Engineering, with a specialization in Water Resources and Environmental Engineering. My work focuses on hydrologic and hydraulic modeling, flood risk analysis, dam safety evaluations, and supporting dam rehabilitation and infrastructure resilience projects.

With Prairie Engineers, I gained extensive experience performing 1D and 2D hydraulic and hydrologic analysis using HEC-RAS and SITES models to simulate overland flow, open channel hydraulics, hydraulic structures, and dam breach scenarios. I developed terrain models and geospatial datasets in GIS to support model development, conducted flood risk assessments, and delineated inundation extents to evaluate potential damages and inform engineering decisions. I applied engineering judgment in selecting model parameters, including Manning’s roughness coefficients based on land cover and aerial imagery, infiltration parameters and boundary conditions. I also optimized model stability and performance by refining mesh configuration, breaklines, and computational time steps in accordance with the Courant condition. In addition, I generated dam breach hydrographs and evaluated spillway performance under PMF conditions to assess dam integrity.

Over the course of my employment, my responsibilities progressed from model development and data preparation to taking on more independent technical tasks and mentorship in modeling efforts. As my experience grew, I assumed responsibility for developing and assessing hydraulic models, verifying model accuracy and convergence, assessing assumptions, and preparing technical reports and inundation maps. I became involved in internal QA/QC processes and frequently coordinated with the supervising PE to ensure compliance with project requirements and regulatory standards. I also provided guidance to junior team members, assisted with troubleshooting modeling issues, and contributed to internal training efforts. I developed checklists, task tracking lists, and documentation to improve workflow efficiency and promote consistent modeling practices across projects.



REPRESENTATIVE PROJECTS

- 1) USDA NRCS Region 3 39 Dam Assessment, South Carolina, USA - Dam Safety Evaluation and Rehabilitation (2024-2025)
I performed dam breach analysis using 2D HEC-RAS to determine inundation extents, identify potential damage areas, and support evaluation of rehabilitation alternatives. I developed breach hydrographs using dam-specific parameters and applied SITES modeling to evaluate reservoir routing and spillway performance under PMF conditions. I exercised engineering judgment in selecting breach parameters, terrain representation, and downstream boundary conditions to accurately simulate flood propagation. I produced inundation maps, depth grids, land-use data, and damage assessment exhibits. I prepared technical report sections describing modeling methods, assumptions, and results, and addressed review comments from the supervising PE to finalize deliverables.
- 2) NRCS Region 3 Watershed Plan and ED for Back and Jacob Swamp, North Carolina, USA - Watershed Management and Flood Mitigation Analysis (2025- Ongoing)
I developed and applied 1D/2D HEC-RAS rain on grid models for Back and Jacob Catchments to simulate overland flow, channel, structure hydraulics and assessing flood risk. I applied engineering judgment in selecting modelling parameters, manning’s roughness coefficients, soils and infiltration parameters, and defining hydraulic boundary conditions. I selected appropriate modeling methodology, prepared input data, evaluated assumptions, and analyzed results using independent engineering judgment with technical review by supervising PE. I prepared figures, maps, and draft technical report for hydrological and hydraulic modelling incorporated review comments into final deliverables and coordinated with senior engineer and project manager to ensure modeling outputs aligned with overall project requirement.
- 3) NRCS Region 7 MO Lower Spillway Ditch Watershed Plan ED, Missouri, USA - Watershed Management and Flood Mitigation Analysis (2025- Ongoing)
I undertook initial 2D HEC-RAS for Lower Spillway model and undertook decisions related to hydraulic model setup, including selection of model extents, model geometry and roughness. I determined appropriate Manning’s n values using aerial imagery and land-cover data to represent hydraulic resistance. I undertook ponding analysis using GIS software to assess the worst-case scenario inundation for St Johns Catchment by assuming the main gate structure at the outlet of St. Johns Bayou is closed,

simulating an elevated Mississippi river pool. I prepared maps, and draft technical report sections for my tasks.

4) NRCS Supplemental Watershed Plans - Isabela Canals & Bordeaux Irrigation Water Plan, Puerto Rico, USA Territory - Watershed Management and Flood Mitigation Analysis (2025- Ongoing)

I supported hydraulic modeling by developing model geometry and incorporating surveyed structures into HEC-RAS models. I contributed to model verification, troubleshooting, and stability improvements. I also developed a GIS and Google Earth-based photo mapping workflow to organize both georeferenced and non-georeferenced site visit photographs, improving visualization, model interpretation, and overall efficiency. I also enhanced project workflows by creating checklists, task tracking tools, and model logs to support QA/QC and consistency. Additionally, I provided technical guidance to team members on model setup and troubleshooting, supporting efficient and standardized model development.

ADDITIONAL INFORMATION



TIME GAPS

Start Date	End Date	Explanation
February 2009	July 2009	During this period, I completed the entrance examination for admission to an engineering degree program, awaited the results, and used the time to prepare for university admission and enrollment.
June 2013	May 2014	During this period, I focused on preparing for admission to a Master's degree program. This included studying for entrance examinations, completing application and admission requirements, and working on the academic transition.

KAIJIE LU (24-606-01)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/30/2026

Citizenship
China

SUMMARY



Engineering Experience
after EAC degree

Total Engineering
Experience
2 years

Experience under licensed
engineer
2 years

Disciplinary Action
None reported



EDUCATION



Meets NCEES Engineering Education Standard

Bachelors in Civil Engineering
University of Toronto
September 2016–June 2020

Masters in Civil and Environmental Engineering
University of California, Berkeley
August 2023–May 2024



EXAMS



Fundamentals of Engineering (FE)
California
May 2024

Principles and Practice of Engineering (PE)
Civil
Nevada
December 2025

LICENSES



Additional Licenses
None

WORK EXPERIENCE

China Nuclear Industry Fifth
Construction Company Co., Ltd.
Shanghai (China)
Project Assistant
August 2020—January 2022

Verified by
Kaijie Lu (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None



TASKS

I assisted project managers with construction coordination, document control, and communication among project stakeholders. I conducted field inspections and prepared bilingual technical reports, including construction documentation, RFIs, permits, variation orders, and meeting records.

I supported structural design activities by developing construction drawings and engineering calculations using AutoCAD and Straus7.

I performed finite element analyses for façade membrane structures and contributed to the preparation of technical reports and design documentation.



REPRESENTATIVE PROJECTS

Carlsberg (Jiangsu) Tianmuhu Brewery Co., Ltd. Warehouse Expansion and Entrance Building

Jiangsu, China | 2020–2022

I participated in the structural design of a warehouse expansion and entrance building with a total construction area of approximately 15,000 m². I performed structural calculations for the light steel portal frame warehouse and reinforced concrete entrance building, prepared structural layouts and detailed drawings, and assisted in the design of pile foundations and superstructure framing systems. I coordinated with architectural and MEP teams to resolve design conflicts and contributed to construction documentation and technical reports throughout the project.

WORK EXPERIENCE

HBP Engineering Consulting Co., Ltd.
Shanghai (China)
Technical Due Diligence Analyst
February 2022—July 2023

Verified by
Kaijie Lu (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None



TASKS

I performed technical due diligence for real estate, industrial, and infrastructure projects by reviewing design documents, site conditions, building systems, regulatory requirements, and potential operational risks. I evaluated structural, architectural, drainage, utility, fire protection, environmental, and ESG-related issues to identify deficiencies and assess project feasibility. I prepared technical reports, risk summaries, repair recommendations, and cost estimates for proposed improvements or upgrades. I also supported environmental and climate-related risk assessments for flood-prone sites by reviewing historical data, drainage conditions, and climate change considerations. In addition, I assisted project teams with LEED certification and ESG assessment documentation.



REPRESENTATIVE PROJECTS

Technicoflor 2000t/y Flavor and Fragrance Greenfield Project | Huzhou, Zhejiang, China | 2022-2023

I supported technical due diligence review for a new flavor and fragrance manufacturing facility with an annual production capacity of 2,000 tons. I assisted in reviewing the project concept design, including the master plan, building layout, structural systems, water supply and drainage, wastewater treatment, rainwater collection systems, fire protection, HVAC, electrical systems, and environmental safety provisions. I assisted in evaluating key project risks related to site grading, stormwater discharge, wastewater treatment capacity, hazardous-material storage, fire protection requirements, and utility infrastructure. I summarized findings into technical review comments and helped identify potential design, compliance, and cost impacts for the client.

WORK EXPERIENCE

WSP USA Inc.
Nevada (United States)
Associate consultant
July 2024—July 2026

Verified by
Jeffrey Steven Douglas
jeff.s.douglas@wsp.com

Experience Summary
Full-Time
Engineering: 2 years
Experience under licensed engineer:
2 years



TASKS

I performed hydrologic analyses by delineating drainage basins, evaluating rainfall and land use data, and calculating curve numbers to estimate runoff and peak discharge rates. I developed and applied hydraulic models to assess street capacity and to size culverts and storm drain systems based on design storm events. I designed storm drain networks and prepared utility plans using Civil 3D, ensuring proper integration with roadway and grading designs. I also prepared drainage reports, performed quantity takeoffs, and supported development of construction plans and specifications.



REPRESENTATIVE PROJECTS

Koval Lane Improvements I Clark County I Las Vegas, NV I (2024 – 2026)

I performed hydrologic modeling using HEC-HMS to evaluate watershed runoff and existing drainage conditions for approximately one mile of urban roadway widening. I conducted hydraulic analysis using WSPG to size storm drain systems and ensure adequate conveyance capacity. I designed storm drain networks using Civil 3D pipe networks and coordinated closely with roadway designers to integrate drainage infrastructure. I prepared drainage memoranda and contributed to final design plans based on my analyses and calculations.

Hollywood Boulevard Extension Phase II I Clark County Public Works I Las Vegas, NV I (2024 – 2026)

I performed hydraulic calculations to support the design of large-scale drainage infrastructure associated with a 6-mile roadway extension, including channels, culverts, and grade control structures. I designed storm drain systems, trapezoidal channels, and riprap protection using Civil 3D and hydraulic modeling tools. I calculated quantities and prepared cost estimates to support project planning and design development. I also coordinated with utility teams and contributed to the preparation of design reports, plans, and technical documentation.

BESS Blackberry Grove Project I Jupiter Power I Ongoing I Washington County, Oregon I (2025 - 2026)

I developed hydrologic and hydraulic (H&H) models to evaluate stormwater runoff and drainage impacts for utility-scale solar and battery energy storage projects. I calculated peak discharge and designed drainage features to ensure compliance with local drainage requirements. I analyzed site conditions and recommended stormwater management strategies to minimize erosion and flooding risks. I also prepared technical documentation summarizing modeling assumptions, results, and design recommendations.

Fairfield Solar Project I WPD Inc. I Fairfield County, South Carolina I (2026 - 2026)

I developed hydrologic and hydraulic (H&H) models to evaluate stormwater runoff and drainage impacts for utility-scale solar and battery energy storage projects. I calculated peak discharge and designed drainage features to ensure compliance with local drainage requirements. I analyzed site conditions and recommended stormwater management strategies to minimize erosion and flooding risks. I also prepared technical documentation summarizing modeling assumptions, results, and design recommendations.

Falcon BESS Project I Renewable Energy Systems Ltd (RES) I Zapata County, Texas I (2026 - 2026)

I developed hydrologic and hydraulic (H&H) models to evaluate stormwater runoff and drainage impacts for utility-scale solar and battery energy storage projects. I calculated peak discharge and designed drainage features to ensure compliance with local drainage requirements. I analyzed site conditions and recommended stormwater management strategies to minimize erosion and flooding risks. I also prepared technical documentation summarizing modeling assumptions, results, and design recommendations.

ERIC MACGILL (25-663-25)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
07/06/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree

Total Engineering Experience
20 years, 1 month

Experience under licensed engineer
14 years, 5 months

Other Experience

Disciplinary Action
None reported



EDUCATION



Bachelors in Business Management
University of Phoenix
January 2001–April 2006

Masters in Civil and Environmental Engineering
University of Nevada, Reno
January 2022–May 2024



WAIVER REQUEST: NRS 625.193(1)(A) AND NRS 625.390, ITEM 2, PART A.

EXAMS



Principles and Practice of Engineering (PE)
Civil
Nevada
December 2025

Waived Fundamentals of Engineering (FE)
Nevada
January 2026

LICENSES



Additional Licenses
None

ERIC MACGILL (25-663-25)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Fawcett Electric
Nevada (United States)
Electrical Apprentice
June 1994—August 1994

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

ERIC MACGILL (25-663-25)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Contractors Warehouse
Nevada (United States)
Cashier
September 1994 – May 1995

Verified by

Experience Summary
Part-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

ERIC MACGILL (25-663-25)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Dixon Electric
Nevada (United States)
Electrical Apprentice
May 1995—November 1996

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

ERIC MACGILL (25-663-25)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Great Basin Electric
Nevada (United States)
Electrical Apprentice
November 1996—July 1999

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

ERIC MACGILL (25-663-25)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Electro-Tech
Nevada (United States)
Journeyman Electrician
July 1999—March 2000

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

ERIC MACGILL (25-663-25)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Network Electric
Nevada (United States)
Journeyman Electrician
March 2000—May 2002

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

ERIC MACGILL (25-663-25)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Nevada Cement Company
Nevada (United States)
Journeyman Electrician
May 2002—August 2004

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

ERIC MACGILL (25-663-25)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Mariner Electric
Nevada (United States)
Journeyman Electrician/Project
Manager
August 2004—May 2006

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

WORK EXPERIENCE

PK Electrical, Inc.
Nevada (United States)
Roadway Design Manager
May 2006—July 2014

Verified by
Karen Purcell
kpurcell@pkelectrical.com

Experience Summary
Full-Time
Engineering: 8 years, 2 months
Experience under licensed engineer:
8 years, 2 months



TASKS

During my time working at PK Electrical, I was the Roadway Design Manager as well as the primary roadway designer for Nevada projects for the company. I had full responsibility for every roadway project I designed. My level of personal responsibility on each project was significant, and I accepted responsibility for any mistakes that occurred within my designs. The complexity of the projects varied, although each involved a relatively high degree of difficulty because the work needed to fit within the roadway right-of-way, avoid conflicts with major infrastructure such as bridge piers, and remain maintainable after construction. Balancing these requirements, along with others, made the engineering decisions required for each project more challenging and complex. For the projects that I designed, I would complete the following work. I performed detailed field investigations to document existing electrical conditions, including service pedestal locations, connected load readings, breaker configurations, and device inventories. This information allowed me to produce accurate design plans and to develop new roadway electrical systems that made effective use of existing power distribution while minimizing the need for additional infrastructure. I completed roadway lighting design by performing lighting-level calculations in AGI-32, while staying within the ANSI/IES and AASHTO standards. My work also included power design for roadway lighting and Intelligent Transportation Systems devices, conductor voltage-drop calculations, conduit fill calculations, and service-pedestal fault-current analyses. In addition, I prepared the electrical design schedules for each project, including conduit, conductor, and cabling schedules, pole and device location schedules, and service pedestal panel schedules. I reviewed applicable standard specifications for each project and wrote supplemental specifications (special provisions) when requirements were not adequately addressed. I also performed material submittal reviews by comparing the contractor-proposed products with the project specifications and determining whether the material should be approved for installation.



REPRESENTATIVE PROJECTS

Galleria Dr. Interchange, construct a new interchange over I-515 to connect the two sides of Galleria Dr., I-515 in Henderson, Nevada.

(2006-2007)

I conducted field visits and reviewed as-built drawings to document existing conditions, then designed the sign and roadway lighting, conduit pathways, power-conductor feeders, and the full power distribution system for the roadway lighting on the project. I also performed voltage drop and conduit fill calculations to ensure NEC compliance and prepared all associated schedules, including lighting, service pedestal, conduit and conductor, panel schedules, and the structure list used for bid items.

US-395 Northbound Expansion, widened the northbound direction of US-395 between Moana Ln. and the I-80 Interchange, Reno, Nevada.

(2007-2009)

I conducted field visits and reviewed as-built drawings to document the existing conditions I needed to design around, then developed the expanded roadway lighting on US-395 and placed aircraft warning beacons for new luminaires located within the FAA flight zone. I also designed the conduit pathways, power-conductor feeders, and separated co-located service pedestals for NDOT and the City of Reno, performed voltage-drop and conduit-fill calculations to meet NEC requirements, and prepared all project schedules, including lighting, service pedestal, conduit and conductor, panel schedules, and the structure list for bid items.

Bruce Woodbury Beltway ITS Infrastructure, Furnish and install ITS Infrastructure on I-215/CC-215 between the I-15/I-215 Interchange and West Lake Mead Pkwy., Clark County, Nevada

(2010-2011)

I conducted field visits and reviewed as-built drawings to document existing conditions to be integrated into the new design, then developed the conduit pathways and power-conductor feeders required for the new ITS communication cabinets. I also performed voltage-drop and conduit-fill calculations to ensure NEC compliance and prepared all associated panel schedules for the project.

1-80 Design Build; Final design and construction to reconstruct PCCP, install new ITS infrastructure, and provide operational

improvements through the corridor; I-80 from Robb Dr. to Vista Blvd in Reno and Sparks, Nevada.
(2011-2012)

I completed field visits and reviewed as-built drawings to identify existing conditions that would be used in the design of the new infrastructure, then developed the roadway, sign, and decorative landscape lighting systems within the Design-Build project limits, including the replacement of all existing NDOT high-pressure sodium luminaires with LED luminaires. I also designed the conduit pathways and power-conductor feeders for all lighting, ITS cabinets, and ITS communication buildings, created the power distribution system for the new infrastructure, performed voltage-drop and conduit-fill calculations to ensure NEC compliance, and prepared the lighting, conduit and conductor, and panel schedules for the project.

I-80 at the Carlin Tunnel; repair tunnel and bridge structures, repair PCCP with new asphalt surface, renovate drainage system, and improve the tunnel lighting; I-80 at the Carlin Tunnel, Carlin, Nevada.

(2012-2014)

I completed field visits and reviewed as-built drawings to identify the existing electrical conditions that would affect the redesign. I then redesigned the entire tunnel lighting system using LED luminaires and modeled the longest tunnel in AGI-32 to ensure compliance with IES RP-22-11, while developing an eight-level automatic lighting control schedule that adjusted based on ambient light at each tunnel entrance and balanced luminaire operating hours for improved maintenance efficiency. I worked directly with the luminaire manufacturer to help develop two LED fixtures suitable for all tunnel zones, including the high-intensity threshold areas, and redesigned the electrical distribution system by replacing outdated equipment and incorporating power-line filters to improve communication to each luminaire. I also revised the project specifications to align with the new infrastructure, completed voltage-drop and fault-current calculations to meet NEC requirements, and prepared all lighting, conduit and conductor, and panel schedules for the project.

WORK EXPERIENCE

Nevada Department of Transportation
Nevada (United States)
Manager for the Signals, Lighting, and
ITS (SLI) Section
August 2014—July 2026

Verified by
Samuel Kofi Ahiamadi
sahiamadi@dot.nv.gov

Experience Summary
Full-Time
Engineering: 11 years, 11 months
Experience under licensed engineer:
6 years, 3 months

TASKS

During almost twelve years with the Nevada Department of Transportation (NDOT), I served for about 10.75 years as Supervisor of the Signals, Lighting, and ITS (SLI) design section before being promoted to Manager of the section for the last 1.25 years. As a supervisor, I was in charge of the designs for SLI projects, defining project scopes, mentoring new designers, and conducting internal QA/QC reviews. I updated the SLI standard construction plans, standard specifications, and project-specific special provisions. Drawing on prior roadway design experience, I exercised full responsibility for the accuracy and completeness of the projects I designed and supervised, and took a high level of personal responsibility for any mistakes made. I conducted the initial QAQC process before each project advanced to departmental review. I have retained full technical responsibility for all internally designed SLI projects in my role as manager while expanding into broader project management duties, including project scope planning, construction cost estimating, updates to SLI standards, encroachment permit reviews, and coordination of SLI agreements with Nevada local public agencies. My work requires careful engineering judgment due to the high complexity of designing systems that must fit within roadway right-of-way limits, avoid conflicts with other disciplines, remain maintainable after construction, and meet the needs of NDOT districts and partner agencies. For both projects that I design and those I guide others through, I perform or teach field investigations, traffic signal design, roadway lighting design with AGI-32 modeling, ITS device and communication system design, fiber optic layout and terminations, power distribution design, voltage drop and conduit fill calculations, service pedestal fault current calculations, development of design schedules, preparation of specifications, and material submittal reviews.

REPRESENTATIVE PROJECTS

SR-160 at Fort Apache Rd and El Capitan Way Signals, construct two new signals at the intersections of SR-160/Fort Apache Rd. and at SR-160/El Capitan Way, SR-160, Clark County, Nevada.

(2015-2016)

I completed a field visit and reviewed as-built drawings to document the existing conditions; and I designed two new signal systems at the intersections of SR-160 and Fort Apache Road and SR-160 and El Capitan Way that included emergency-vehicle preemption, loop-detector vehicle detection, permissive-protected (El Capitan) and protected-only (Fort Apache) left turn phasing, LED intersection lighting that was modeled in AGI-32, ITS pan-tilt-zoom cameras, and the fiber-optic interconnect between the new and existing signals on SR-160. I also designed the conduit pathways, power-conductor feeders, and fiber-optic cable routing and splice diagrams, performed voltage-drop and conduit-fill calculations to ensure NEC compliance; and developed all general notes, sheet notes, and schedules such as signal pole, conduit and conductor, and pull box schedules, and the structure list for bid items.

FAST Package H2 and H3, Install ITS Infrastructure on I-15 from SR-604 to Nevada/Arizona Stateline, I-15 north of Las Vegas in Clark County, Nevada.

(2017-2019)

I completed several field visits and reviewed as-built drawings to document the existing conditions; completed the initial planning, scoping, and design development for the 18 ITS sites that were ultimately constructed; coordinated with the ITS Operations section so I could design the network communication system and with the Utilities section so I could design the power distribution for each site; and I designing the solar-power systems for the three ITS sites without available utility power. I also taught a junior designer how to design ITS sites and prepare ITS schedules, and I completed all internal 60% and 90% design evaluation reviews for the project.

Ely Downtown Reconstruction; pulverization, roadbed modification, plantmix bituminous surface with open grade, curb, gutter, sidewalk, Signals, lighting, ITS, ADA, drainage, sewer, and water improvements; Ely, Nevada

(2019-2020)

I completed several field visits and reviewed as-built drawings to determine existing conditions, then performed the original planning, scoping, and design development for the signal, lighting, and ITS systems. I designed one of the two modified signals, one of the two RRFB pedestrian crossings, and the initial conduit routing and the fiber-optic trunkline connection locations. I also trained a junior designer to complete the lighting system, holiday-lighting receptacles, signal modifications, RRFB crossings, power distribution, ITS schedules, and electrical calculations, and I conducted all internal 60% and 90% design evaluation reviews.

I-215 Windmill to South Valley View; 1" cold mill and 1" asphalt rubber overlay on existing asphalt pavement roadway with bridge and SLI improvements; I-215 Clark County, Nevada.

(2021-2024)

I reviewed prior as-built drawings to determine the existing conditions, and I completed the original planning, scoping, and design development for the signal, lighting, and ITS systems, including the research and development of NDOT's new wrong-way driver warning system standard and the design of two of the three warning systems constructed. I also trained a junior ITS designer to design warning systems that met the new standard, update the fiber-optic conduit layout, complete SLI schedules, and perform electrical calculations, and I conducted all internal 60% and 90% design evaluation reviews, and prepared the construction cost estimate for the SLI work.

I-11 from Martin L King Blvd to W. Lake Mead Blvd; Mill and Overlay; Las Vegas, Nevada.

(2023-2026)

I completed a field visit and reviewed prior as-built drawings to identify the existing conditions; I completed the original planning, scoping, and design development for the signal, lighting, and ITS systems; and I designed the wrong-way driver warning system. I taught a junior designer how to identify outdated luminaires and design replacement lighting systems, complete SLI schedules, and perform electrical calculations. I also completed the internal 60% and 90% design evaluation reviews and the construction cost estimate for the SLI work.

ALEXANDER MENUN (24-167-47)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/24/2026

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree

Total Engineering
Experience
2 years

Experience under licensed
engineer
2 years

Disciplinary Action
None reported



EDUCATION



Meets NCEES Engineering Education Standard

Bachelors in Civil Engineering
McGill University
September 2019–June 2023

Masters in Civil and Environmental Engineering
University of California, Berkeley
August 2023–May 2024



EXAMS



Fundamentals of Engineering (FE)
California
January 2024

Principles and Practice of Engineering (PE)
Civil
California
October 2025

LICENSES



Additional Licenses
None

ALEXANDER MENUN (24-167-47)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Walter P Moore and Associates, Inc.
California (United States)
Graduate Engineer
June 2024—June 2026

Verified by
Vlad I Ivanov
vivanov@walterpmoore.com

Experience Summary
Full-Time
Engineering: 2 years
Experience under licensed engineer:
2 years



TASKS

As a Graduate Engineer at Walter P Moore, I have progressively gained experience in structural engineering under the supervision of registered professional engineers. My experience has focused on the investigation, analysis, and repair of existing buildings and parking garage structures.

Specific tasks and duties in this role have included the analysis of the condition of existing concrete, steel, and timber structures during investigations through independent site assessments of structures. Following assessments, I coordinate with supervising engineers to discuss my findings, and prepare a technical report of observed structural deterioration, probable causes, and conceptual repairs. I have also developed structural repair construction documents under the supervision of registered engineers, including calculations, plans, details, and specifications for concrete and steel structures. During the development of repair designs, I worked closely with supervising engineers, receiving regular feedback on my designs. During the construction of structural repairs, I have assisted in the construction administration process by reviewing submittals and responding to requests for information (RFIs) from contractors. Typically for construction administration tasks, I will complete my first review and then receive feedback and corrections from the supervising engineer-of-record. I have also complete site visits during construction to review mockups and construction progress.



REPRESENTATIVE PROJECTS

Paseo Plaza Garage concrete slab-on-grade assessment and repairs. San Jose, CA. August 2024 – August 2025. During this project, I completed an initial assessment on reported concrete slab-on-grade deterioration in the below-grade parking structure of a condominium complex. Following the initial assessment, I prepared calculations, plans, details, and specifications for the replacement of deteriorated portions of the slab-on-grade with new reinforced concrete and a galvanic anode system. Additionally, I assisted in the permitting process by submitting our construction documents to the city and coordinating with the plan check engineer during permitting. I also completed site visits to monitor the progress of construction.

Confidential parking garage post-tensioned concrete slab corrosion assessment and repairs. Redmond, WA. April 2026 – Present. During this project, I reviewed a random sampling of sixty-four existing post-tensioned tendons extracted from concrete beams and slabs for corrosion. I designed structural repair details and specifications to replace tendons that were sampled with new tendons. Following the investigation, I prepared a report that summarized our findings on the frequency of corrosion and overall condition of the garage, and our recommendations for structural repairs that I will assist in the design of at a future date.

KHOI NGUYEN (25-331-61)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
07/01/2026

Citizenship
Vietnam

SUMMARY



Engineering Experience after EAC degree

Total Engineering Experience
6 years, 10 months

Experience under licensed engineer
2 years, 1 month

Disciplinary Action
None reported



EDUCATION



Bachelors in Construction Engineering
HCMUTE - Ho Chi Minh City University of Technology & Education
September 2015–September 2019

NOTE: The applicant is deficient by 4 Math/Science credits; however, the applicant has a significant number of Math/Science and Engineering credits included under the elective coursework (see page 108).

EXAMS



Fundamentals of Engineering (FE)
Texas
October 2025

Principles and Practice of Engineering (PE)
Civil
Texas
May 2026

LICENSES



Additional Licenses
None

WORK EXPERIENCE

*Ho Chi Minh City University of
Technology and Education
Ho Chi Minh (Vietnam)
Research Assistant
October 2018—June 2019*

*Verified by
Tuong Pham Duc Bui
tuongbpd@hcmute.edu.vn*

*Experience Summary
Part-Time
Engineering: 6 months (75%)
Experience under licensed engineer:
None*



TASKS

- I researched the effectiveness of tuned liquid dampers for reducing structural responses under seismic loading conditions.
- I developed finite element and computational fluid dynamics (CFD) models using ANSYS Mechanical APDL and ANSYS CFX to simulate fluid-structure interaction behavior.
- I performed coupled structural and fluid dynamic analyses to evaluate the performance of tuned liquid dampers under harmonic and seismic loading conditions and analyzed the resulting structural responses.



REPRESENTATIVE PROJECTS

1. Published Research Paper – Structural Vibration Control Using Multi Tuned Liquid Dampers (mTLD) (2019)

Description:

- Published research presented at the 40th National Conference on Engineering Mechanics, Hanoi, Vietnam

I developed finite element and fluid-structure interaction (FSI) models for a steel frame integrated with multiple tuned liquid dampers using ANSYS Mechanical APDL and ANSYS CFX. I performed transient dynamic analyses using the Newmark integration method, Rayleigh damping formulation, finite volume methods, and Navier–Stokes equations to evaluate structural responses under harmonic and seismic loading conditions. I designed and optimized a five-tank mTLD system, conducted shake-table testing to validate numerical results, and evaluated vibration reduction performance of the proposed system.

2. Experimental Investigation of Tuned Liquid Damper (TLD) Behavior Using Shake Table Testing (2018)

Description:

- Experimental investigation of tuned liquid damper behavior under dynamic loading conditions

I performed shake-table testing to investigate liquid sloshing behavior and structural vibration responses under dynamic loading conditions. I measured structural responses, wave heights, and vibration periods and evaluated the effects of water depth and tank geometry on sloshing frequency and damping performance. I developed ANSYS CFX models to simulate fluid motion and fluid-structure interaction and compared numerical and experimental results to verify model accuracy and improve modeling assumptions.

WORK EXPERIENCE

*CDCo Architecture & Engineering
Consultants
Ho Chi Minh (Vietnam)
Structural Engineer
July 2019—July 2021*

*Verified by
PHAM QUANG SON
qson1307@gmail.com*

*Experience Summary
Full-Time
Engineering: 2 years
Experience under licensed engineer:
None*

TASKS

- I evaluated structural framing systems and developed preliminary structural layouts during conceptual and preliminary design stages.
- I designed reinforced concrete and steel structures in accordance with applicable TCVN standards.
- I performed structural analyses and calculations for beams, slabs, columns, and foundations to verify compliance with design requirements.
- I developed structural plans, sections, and details based on my structural calculations and design analyses.
- I prepared quantity take-offs for concrete, reinforcement, formwork, and structural steel materials based on structural design documents.
- I developed structural design spreadsheets for reinforced concrete beams and slabs in accordance with TCVN design provisions.

Engineering Software: ETABS, SAFE, SAP2000

REPRESENTATIVE PROJECTS

1. PRIMARY SCHOOL – NGUYEN HONG THE (2019)

Description

- Reinforced concrete primary school project with 22 classrooms and total floor area of approximately 6,300 m²
- Located in Nha Be District, Ho Chi Minh City, Vietnam

I developed and analyzed finite element structural models for four reinforced concrete building blocks. I designed spun-pile foundation systems and reinforced concrete structural components, including slabs, beams, and ramps, in accordance with TCVN standards and developed structural plans and details based on my design calculations. I prepared structural calculation reports and quantity take-offs for the foundation and ground floor systems.

2. THE MARIS – VUNG TAU REGENCY (2020)

Description

- High-rise residential development with reinforced concrete shear wall, core wall, and transfer beam systems
- Two residential towers with total floor area of approximately 166,000 m²
- Located in Vung Tau City, Vietnam

I developed and analyzed finite element structural models for the superstructure system of Polaris Tower. I designed reinforced concrete columns, shear walls, and core walls and performed seismic analyses, including story drift and P-delta evaluations, in accordance with TCVN requirements. I developed structural plans and details based on my design calculations and prepared structural calculation reports and quantity take-offs for the project.

3. MOC GIA BUILDING (2020)

Description

- Office building with total floor area of approximately 3,500 m²
- Low-rise reinforced concrete structure with flat slab system
- Located in Tan Phu District, Ho Chi Minh City, Vietnam

I designed reinforced concrete columns, wall systems, and flat slab structural components in accordance with TCVN standards. I evaluated gravity loading effects and verified member capacities and serviceability requirements through structural analysis and design calculations. I developed structural plans and details and prepared structural calculation reports and quantity take-offs for the project.

4. WAREHOUSE & FACTORY – PHUOC AN PORT (2021)

Description

- Industrial logistics development with total masterplan area of approximately 550 hectares
- Warehouse and factory structures utilizing pre-engineered steel building systems
- Located in Phuoc An Port area, Vietnam

I developed and analyzed finite element structural models for warehouse and factory structures. I designed steel portal frames with 20m and 30m spans supporting 15-ton crane loads and designed raft foundations supported by PHC spun piles in accordance with TCVN standards. I designed reinforced concrete structural components, including slabs, beams, ramps, and columns, developed structural plans and details based on my design calculations, and prepared structural calculation reports and quantity take-offs.

WORK EXPERIENCE

IntES International Engineering
Solutions
Ho Chi Minh (Vietnam)
Structural Engineer
February 2022—May 2024

Verified by
Vu Duy Nguyen
nguyen.vu@int-es.com

Experience Summary
Full-Time
Engineering: 2 years, 3 months
Experience under licensed engineer:
None

TASKS

- I designed pre-engineered steel buildings and reinforced concrete structures in accordance with ANSI/AISC, ACI, and applicable Vietnamese (TCVN) standards.
- I designed Special Moment Frame (SMF) and Special Concentrically Braced Frame (SCBF) seismic force-resisting systems for structures located in high seismic regions.
- I performed structural analyses and calculations to determine member forces, structural stability, and code compliance under gravity, wind, and seismic loading conditions.
- I prepared engineering calculation reports to support design development.
- I reviewed project requirements and evaluated design alternatives to address client comments during various stages of project development.
- I prepared technical specifications, material take-offs, and tender clarification documents for bidding and procurement activities.
- I developed internal design spreadsheets integrated with Autodesk Robot Structural Analysis to automate engineering calculations and improve design workflow efficiency.

Engineering Software: Autodesk Robot Structural Analysis, IDEA StatiCa, SAP2000

REPRESENTATIVE PROJECTS

1. OFFICE BUILDING (PT LINDE) (2022)
Description
 - Workshop and office building with approximately 2,000 m2 floor area
 - Pre-engineered steel building with composite deck slab system
 - Located in Gresik, East Java, IndonesiaI developed and analyzed a finite element structural model for the building structure. I performed seismic analyses in accordance with ASCE 7 requirements for structures located in high seismic regions and designed the steel framing system, including SCBF and SMF seismic force-resisting systems, and prequalified steel connections in accordance with ANSI/AISC 360 and ANSI/AISC 341 requirements. I designed bored pile foundations and reinforced concrete structural components, including slabs, grade beams, columns, and piles, and prepared structural calculation reports and quantity take-offs.
2. ABOITIZ BOURBON PROJECT – NEW LIVESTOCK PLANT (2022)
Description
 - Warehouse and feed mill tower project
 - Pre-engineered steel building system
 - Located in Long An Province, VietnamI developed and analyzed finite element structural models for warehouse and feed mill tower structures. I designed the steel superstructure in accordance with AISC standards and reinforced concrete foundations and substructures in accordance with TCVN requirements. I designed sheet wall structures for flat storage areas, evaluated foundation systems supporting grain silos under operational loading conditions, and prepared structural calculation reports and quantity take-offs.
3. CARLSBERG EXPANSION (2023)
Description
 - Brownfield brewery expansion including production halls, warehouses, office buildings, and utility structures
 - Located in Thua Thien Hue Province, VietnamI developed and analyzed finite element structural models for production halls, warehouses, office buildings, and utility structures. I designed steel superstructures in accordance with AISC standards, reinforced concrete foundations and substructures in accordance with TCVN requirements, and utility structures including pipe racks and equipment foundations. I evaluated wind uplift effects in accordance with FM Global requirements, assessed structural interfaces with existing facilities to verify compatibility with

the expansion design, and prepared structural calculation reports and quantity take-offs.

4. PEPSICO GREENFIELD PROJECT (2023–2024)

Description

- Greenfield development of a new food and beverage manufacturing plant
- Included warehouse, office, cold-storage, and utility structures
- Located in Ha Nam Province, Vietnam

I developed and analyzed finite element structural models for warehouse, office, and cold-storage facilities associated with the project. I evaluated alternative framing systems and foundation layouts and designed steel, precast concrete, and reinforced concrete structures in accordance with AISC and TCVN requirements. I evaluated seismic and wind uplift effects in accordance with FM Global requirements, reviewed client design comments and assessed the structural impact of proposed revisions, designed equipment foundations and utility structures, and prepared structural calculation reports, technical specifications, and engineering clarifications for tender-phase design reviews.

WORK EXPERIENCE

Self-employed
Ho Chi Minh (Vietnam)
Structural Engineer / Design
Automation Developer
July 2019—May 2024

Verified by
Khoi Nguyen (Self)

Experience Summary
Part-Time
Engineering: (0%)
Experience under licensed engineer:
None



TASKS

- Develop spreadsheets integrated with ETABS to automate beam/column calculation, especially for high-rise buildings with a large number of beams/columns
- Develop WinForms and WPF applications using C# and structural analysis software APIs, including ETABS and Robot Structural Analysis



REPRESENTATIVE PROJECTS

1. Beam TCVN
 - Developed using VBA integrated with Excel
 - Extract internal forces in ETABS and perform beam design per TCVN (Vietnamese design standards)
 - Calculate required flexural reinforcement, stirrup design, and crack control checks
2. Column Wall TCVN
 - Developed using C# as a VSTO module for Excel with user interface
 - Integrated with ETABS
 - Extract internal forces and perform design checks for columns and walls simultaneously
 - Calculate required reinforcement, stirrup design, and ductility checks per TCVN (Vietnamese design standards)
 - Perform drawings in AutoCAD based on design result
 - Source code: <https://github.com/dkhoi1997/NDKToolsExcel>
3. "CrossStruc"
 - Structural component design tool based on TCVN for Autodesk Robot Structural Analysis
 - Improvement of "Column Wall TCVN" and "Beam TCVN" using enhanced interaction diagram algorithms
 - Developed using C# with WPF user interface
 - Automate structural design workflows and calculation checks, including flexural, combined shear and torsion, ductility, and crack control verification
 - Source code: <https://github.com/dkhoi1997/CrossStruc>

WORK EXPERIENCE

CST Industries Vietnam

Ho Chi Minh (Vietnam)

Structural Engineer

May 2024—June 2026

Verified by

Keith E McGuire

kmcguire@cstindustries.com

Experience Summary

Full-Time

Engineering: 2 years, 1 month

Experience under licensed engineer: 2 years, 1 month

TASKS

- I designed bolted steel storage tanks and associated structural elements in accordance with AWWA D103, FM Global requirements, and EN 1993-1-6 standards, as applicable.
- I developed and analyzed finite element models to evaluate local shell stresses, supporting structures, roof systems, and other non-standard structural configurations when required.
- I performed structural analyses and calculations to evaluate hydrostatic, wind, seismic, roof, and operational loading effects on tank systems.
- I designed reinforced concrete foundation systems, anchorage systems, anchor bolts, and embedded starter rings in accordance with ACI 318 and ACI 350 requirements.
- I reviewed structural and foundation drawings to verify compliance with design criteria, project specifications, and applicable codes and standards.
- I designed structural steel members, connections, and support structures in accordance with AISC requirements and evaluated member and connection capacities to verify compliance with applicable design standards.
- I developed and maintained engineering spreadsheets and software tools integrated with structural analysis programs to automate design calculations, improve workflow efficiency, and reduce manual engineering effort.

Engineering Software: SAP2000, Microsoft Excel (VBA)

REPRESENTATIVE PROJECTS

1. Pratt - 5951 TS – EQ (2024)

Description:
 - Municipal wastewater storage tank for wastewater treatment plant development
 - Located in Georgia, USAI designed a flat-panel wastewater storage tank with a dome roof in accordance with AWWA and ASCE standards and evaluated hydrostatic, wind, and operational loading effects. I reviewed geotechnical information, determined foundation design parameters, and designed a reinforced concrete mat foundation supported by a Geopier system in accordance with ACI requirements. I prepared tank and foundation calculation reports.
2. Blackwater Expansion (2025)

Description:
 - Mining-related tank expansion project with complex accessories and heavy top-supported structures
 - Located in British Columbia, CanadaI designed a Leach Tank, Pre-Aeration Tank, and Fresh Water Tank in accordance with NBCC and AWWA standards. I designed column-to-shell connections and roof structures for heavy snow loading conditions and evaluated local shell stresses and buckling behavior resulting from concentrated loads using SAP2000 analysis models. I prepared tank and special structural calculation reports.
3. Q18305 - Teck Coal Indoor Chime Tanks (2025)

Description:
 - Indoor chime tank system with custom maintenance platform structures
 - Located in Sparwood, British Columbia, CanadaI designed a chime tank system in accordance with NBCC and AWWA standards and evaluated tank shell and roof performance under pressure and vacuum loading conditions. I designed a low-profile roof system and shell-supported steel brackets for maintenance platform structures and prepared tank and special structural calculation reports.
4. P0475 – Seabrook (2025)

Description:

- Waste digester tank project consisting of externally supported roof and low-profile roof systems
- Located in New Jersey, USA

I designed flat-panel waste digester tanks in accordance with AWWA, AISC, and ASCE standards and evaluated sediment accumulation effects on tank loading conditions. I designed roof systems and shell-supported brackets for concentrated settler beam loads and evaluated local shell stresses and buckling behavior to verify structural adequacy. I prepared tank and special structural calculation reports.

5. La Salle 2238 SSWT (2026)

Description:

- Glass-fused-to-steel storage tank with elevated platform supporting aerator and blower equipment
- Located in Illinois, USA

I designed a glass-fused-to-steel storage tank, elevated platform structure, and reinforced concrete foundation system in accordance with AWWA, AISC, and ACI requirements. I developed and analyzed an elevated platform model in SAP2000 and evaluated wind and seismic loads in accordance with ASCE 7 requirements. I designed steel members, connections, and column-to-tank shell connections for the platform system, evaluated local shell buckling under concentrated loads, and prepared structural calculation reports.

6. CST Mango Foundation Design Tool (2026)

Description:

- Internal engineering application developed for tank foundation analysis and design
- Used for structural evaluation of multiple tank foundation systems

I redeveloped and enhanced an existing tank foundation design application integrated with SAP2000 for structural analysis and foundation design. I implemented and upgraded calculation procedures for ringwall, slab, embedded ring, and anchor bolt foundation systems and automated engineering workflows used in foundation design. I verified calculation methodologies against ACI requirements and engineering design procedures and improved the efficiency and consistency of foundation design calculations.



DEGREES EVALUATED

Institution/Degree	Country	Language	Courses
HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering 09/01/2015 — 09/01/2019	Vietnam	Vietnamese	45

COMPARABILITY SUMMARY

Outcome: Not Equivalent

Area	Hours	Deficiency
Math/Science	28 / 32	Missing 4 hours
Engineering	51 / 48	None
General Education	28 / 12	None
Elective/Other	38 / N/A	None

SPECIAL NOTE

The NCEES Engineering Education Standard requirement is 32 semester credit hours in higher mathematics/basic sciences.

Specified Criteria Hours: 32

Course	Institution/Degree	U.S. Credits
Calculus I	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	3
Calculus II	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	3
Chemistry	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	3
Construction Geology	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	1
Engineering Geology	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Linear Algebra & Differential Equations	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	3
Mechanics	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	4
Physics	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	6
Probability & Statistics	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	3

Total semester credit hours earned: 28.00

Specified Criteria Hours: 48

Course	Institution/Degree	U.S. Credits
Bachelor Thesis	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	6
Dynamics of Structures	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Foundation Engineering	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	4
High Rise Foundations	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
High-Rise Structures	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Properties of Materials	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	3
Reinforced Concrete Structures	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	8
Soil Mechanics	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	5
Steel Structures	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	7
Strength of Materials	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	4
Structural Mechanics	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	4
Testing of Structures	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Water Supply & Sewer System Engineering	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2

Total semester credit hours earned: 51.00

Specified Criteria Hours: 12

Course	Institution/Degree	U.S. Credits
Communist Party of Vietnam	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	3
English	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	6
Ho Chi Minh's Ideology	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Law	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Logic	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Marxism-Leninism	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	5
National Defense	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	4
Sociology	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Vietnamese Culture	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2

Total semester credit hours earned: 28.00

Specified Criteria Hours: N/A

Course	Institution/Degree	U.S. Credits
Architecture	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	3
Civil Engineering Drawing	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Computational Methods	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Construction Economics	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Construction Management	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	4
Construction Regulations	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	1
Construction Techniques	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	6
Descriptive Geometry & Drawing	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Information Technology	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	3
Internship	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Introduction to Construction Engineering	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	3
Quality Control	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	2
Surveying	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	3
Visual Basic Design	HCMUTE - Ho Chi Minh City University of Technology & Education / Bachelors in Construction Engineering	3

Total semester credit hours earned: 38.00**Total Semester Credit Hours Earned: 145**

PROCESS DESCRIPTION

All education is compared to the NCEES Engineering Education Standard

The evaluation of your academic studies has been prepared to provide engineering and surveying licensing boards with the required assessment of foreign qualifications to facilitate them in determining if you qualify for licensure examination. This is an advisory report prepared based on records received and verified by the institutions issuing the degrees or qualifications. Eligibility to take the examination is determined by the licensing boards.

This report does not include the assessment of written and oral communication skills, computer skills, the quality of laboratory or field work, and the scope of design experience, which require an onsite review. Academic records (such as transcripts and

catalogs) do not document qualitative factors and practical constraints to desirable outcomes.

NCEES houses a library of reference materials from around the world. These references are used for the completion of evaluations in conjunction with the NCEES Engineering Education Standard.

Post-graduate courses are ONLY used in an evaluation if they can assist in eliminating deficiencies that may be indicated in the undergraduate program.

Official Evaluations are ONLY available to state licensing boards and international exam sites through an applicant's NCEES account.

SURAJ PRASAD PANDEY (23-851-07)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/25/2026

Citizenship
Nepal

SUMMARY



Engineering Experience
after EAC degree

Total Engineering
Experience
2 years

Experience under licensed
engineer
2 years

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering
Tribhuvan University
August 2016–October 2021

Masters in Civil Engineering
University of Wyoming
August 2022–May 2024

EXAMS



Fundamentals of Engineering (FE)
Wyoming
August 2023

Principles and Practice of Engineering (PE)
Civil
Nevada
March 2025

LICENSES



Additional Licenses
None

WORK EXPERIENCE

WSP USA Inc.
Nevada (United States)
Early career civil/geotechnical engineer
& Associate Consultant Civil Engineer
June 2024—June 2026

Verified by
Matthew Duane Barton
matthew.barton@wsp.com

Experience Summary
Full-Time
Engineering: 2 years
Experience under licensed engineer:
2 years



TASKS

I was responsible for performing a range of engineering tasks related to the planning, design, and evaluation of mining infrastructure, focus on tailings storage facilities (TSFs) and Heap Leach Pads. My tasks and duties included preparing technical reports and supporting the design and drafting of engineering drawings using Civil 3D, ensuring alignment with project specifications and performing geotechnical analyses such as settlement analysis, slope stability analysis, and . I also assisted in writing multiple proposals for competitive bidding process.

These responsibilities were performed entirely within the scope of engineering practice, with no non-engineering or surveying duties.
Engineering involvement: 100%.



REPRESENTATIVE PROJECTS

Geotechnical Investigation (TSF near Winnemucca, NV):
Participated in subsurface logging and site characterization.
Developed foundational skills in interpreting soil and rock conditions for TSF applications.

TSF Design and Investigation (TSF in Eureka County, NV):
Conducted geotechnical investigations and prepared detailed subsurface logs.
Supported preparation of geotechnical and civil design technical memoranda.
Integrated field observations with analytical results to support tailings dam design and long-term performance evaluation.

Civil Design Support (Haul Road Infrastructure in Eureka County, NV):
Assisted in preparing haul road design drawings.
Performed earthwork quantity estimations to support project planning and cost evaluation.

Evaporation Cell Design (Northern Nevada)
Contributed to engineering analyses and design development.
Assisted in preparing technical reports documenting design assumptions, analyses, and recommendations.

Parking Lot Design/Grading
Assisted in development of grading plans to ensure positive drainage away from parking surfaces.

Dam Safety Inspection (Historical TSF in Carlin):
Participated in field inspections to assess embankment conditions, drainage performance, and erosion.
Evaluated slope performance indicators and potential stability concerns.
Contributed to inspection reports, risk identification, and recommendations for monitoring and maintenance.

Instrumentation Monitoring and Stability Analysis (TSF near Battle Mountain):
Reviewed piezometer data to assess pore pressure conditions and dam performance.
Supported slope stability analyses under varying conditions.
Contributed to preparation of Trigger Action Response Plans (TARPs) for risk management.

Storm water Management (Sitewide mine)
Performed hydraulic and hydrologic design
Designed retention ponds for temporary storage of runoff
Design of channels

Updating Design Drawings for Final Plan for Permanent closure for hHeap Leach Pads and writing technical reports to document the change.

Cost Estimation (New Filter Stack TSF):

Assisted in order-of-magnitude cost estimation.

Performed earthwork quantity takeoffs to support budgeting and project feasibility.

Writing technical reports

Technical Analysis and IGRB Support (For TSFs in Eureka County and near Winnemucca, NV)

Performed material property and groundwater sensitivity analyses for a future TSF near Winnemucca.

Contributed to development of technical presentations for Independent Geotechnical Review Board (IGRB) meetings.

Construction Oversight (Resident Engineer – 5013 Embankment Raise, Battle Mountain):

Provided on-site construction oversight for TSF embankment raise activities.

Coordinated with contractors and site personnel to ensure compliance with design specifications.

Reviewed field data, verified construction quality, and documented daily progress.

Strengthened expertise in constructability, quality assurance, and maintaining design intent during execution.

SURAJ PRASAD PANDEY (23-851-07)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

Start Date	End Date	Explanation
November 2021	July 2022	Working in my country Nepal as a civil engineer.

SIDDHANT PATIL (22-934-16)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
07/06/2026

Citizenship
India

SUMMARY



Engineering Experience after EAC degree

Total Engineering Experience
3 years, 6 months

Experience under licensed engineer
3 years, 6 months

Disciplinary Action
None reported



EDUCATION



Meets NCEES Engineering Education Standard

Bachelors in Civil Engineering
University of Mumbai
August 2017–June 2021

Masters in Civil Engineering
University of Illinois, Chicago
August 2021–December 2022

EXAMS



Fundamentals of Engineering (FE)
Indiana PE
September 2022

Principles and Practice of Engineering (PE)
Civil
Virginia
April 2026

LICENSES



Additional Licenses
None

WORK EXPERIENCE

SK&A Structural Engineers P.A.
Maryland (United States)
Structural Engineer 2
January 2023—November 2025

Verified by
Catherine Booe Newman Pastoor
Catherinen@skaengineers.com

Experience Summary
Full-Time
Engineering: 2 years, 10 months
Experience under licensed engineer:
2 years, 10 months



TASKS

I developed structural analytical models and performed gravity load analysis and design for reinforced concrete and structural steel buildings in accordance with IBC, ASCE 7, ACI 318, and AISC requirements. I designed conventional reinforced concrete and post-tensioned floor systems, structural steel framing members, and concrete foundations while evaluating strength, serviceability, and constructability requirements.

I utilized RAM Concept for the analysis and design of conventional and post-tensioned slabs and beams, RAM Structural System for analysis and design of steel framing systems, and ETABS for lateral analysis. I prepared structural calculations and construction documents and coordinated design requirements with clients.

I evaluated existing structural components for renovation and adaptive reuse projects by determining gravity load demands and reviewing existing structural information. I performed hand calculations and engineering checks to verify computer analysis results and ensure code compliance.

During the construction administration phase, I reviewed shop drawings and structural submittals, prepared responses to requests for information (RFIs), and coordinated with contractors and project teams to resolve field issues. I performed site visits to observe construction progress and documented field conditions relative to the approved construction documents.

I participated in internal design meetings, evaluated structural alternatives, and incorporated project requirements into structural calculations and drawings. My responsibilities were predominantly engineering in nature and required the application of engineering judgment in structural analysis, design, detailing, and construction support.



REPRESENTATIVE PROJECTS

Riva Road Retail Building, Annapolis, Maryland (2023–2024)

This project consists of a steel-framed retail building located in Annapolis, Maryland.

I developed an analytical model and performed gravity analysis using RAM Structural System. I designed steel beams, columns, and bracing members in accordance with the AISC Steel Manual and ASCE 7 load requirements. During construction administration, I reviewed shop drawings and RFIs to address field issues and maintain conformance with the structural design.

Corso Chevy Chase Senior Living Community, Chevy Chase, Maryland (2024–2025)

Corso Chevy Chase is a luxury senior living community. Typical elevated floors utilized post-tensioned slabs, with conventionally reinforced slabs provided in selected areas

I developed analytical models and designed post-tensioned and conventionally reinforced slabs using RAM Concept. I designed tendon layouts, calculated reinforcement requirements, and evaluated stresses, deflections, and serviceability requirements in accordance with ACI 318.

Duke Energy Office-to-Residential Conversion, Charlotte, NC (2024–2025)

This project involved the adaptive reuse of two existing office towers into residential buildings with additions including a penthouse and a retail structure above an existing concrete parking garage.

I evaluated gravity loads on the existing structure and designed the structural steel framing for the penthouse and retail addition using RAM Structural System. I designed steel beams, columns, and bracing members and performed load path evaluations for the new framing. I also designed connections to the existing structure, including base plates and anchor bolt assemblies, and verified anchorage capacities using Hilti Profis. I prepared structural calculations and construction documents and coordinated with architects and other disciplines throughout the design process.

WORK EXPERIENCE

GPLA inc.
Texas (United States)
Structural Designer 2
November 2025—July 2026

Verified by
Safa Sadat Masajedian
safa.masajedian@gmail.com

Experience Summary
Full-Time
Engineering: 8 months
Experience under licensed engineer:
8 months



TASKS

I perform structural engineering analysis, design, coordination, and construction document preparation for building and industrial projects. My responsibilities include developing structural analytical models, evaluating gravity and lateral load paths, designing structural members, preparing engineering calculations, and coordinating structural requirements with architectural, mechanical, and other project disciplines



REPRESENTATIVE PROJECTS

Eli Lilly(Allentown,PA) (2025–Present)

This project involves the design of a structural steel facility for a pharmaceutical manufacturing plant.

I developed the structural analytical model and designed the primary steel framing using Tekla Structural Designer. I designed spread footings, combined footings subjected to gravity and lateral loads, and reinforced concrete pile caps supported on micropiles by evaluating reactions from the superstructure and available pile capacities. I prepared structural calculations, verified code compliance, and coordinated with the project team to develop efficient and constructible structural solutions.

ZACHARY SHALES (22-775-29)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/29/2026

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
4 years

Total Engineering
Experience
4 years

Experience under licensed
engineer
4 years

Disciplinary Action
None reported



EDUCATION



Bachelors in Mechanical Engineering (EAC)
University of Nevada, Reno
August 2018–May 2022

EXAMS



Fundamentals of Engineering (FE)
Nevada
November 2022

Principles and Practice of Engineering (PE)
Civil
Nevada
July 2024



LICENSES



Additional Licenses
None

ZACHARY SHALES (22-775-29)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Wood Rodgers Inc.
Nevada (United States)
Assistant Engineer
June 2022—June 2026

Verified by
Shawnee Alise Dunagan
sdunagan@woodrogers.com

Experience Summary
Full-Time
Engineering: 4 years
Post EAC degree: 4 years
Experience under licensed engineer:
4 years



TASKS

My primary focus has been land development of Planned Unit Developments (PUDs). Originating with detailed grading and drainage plot plans for individual properties to meet governing authority design requirements. Throughout the past four years I have been apart of all steps in getting a proposed subdivision to construction such as; the entitlement process, tentative map applications, master studies (hydrologic and sewer), mass grading, and final CIP plans. I have conducted lotting studies, where a client comes to us with a parcel and a desired lot/product size. In accompanying the lotting studies an overall project lot count is provided as well as a summary of the site including any restrictions and concerns as well as multiple solutions for the client to decide upon. Deliverables at this stage include a preliminary geotechnical report, cut/fill estimates of the site, preliminary cost estimate and any other driving factors of the overall project that must be considered.

My primary tasks and duties have been overall drainage and grading design for large planned unit developments. I analyze site constraints such as soil separation requirements, and drainage constraints. I have designed the overall road, grading and utility layout for backbone improvements and future subdivisions designing storm drain pipe networks to contain the 5 and 100-year storm events per the city design manual. Utilizing Civil 3D, StormCAD and FlowMaster to design cutoff ditches, low-flow channels, box culverts and storm drain pipe sizing. Ultimately producing Master Technical Drainage reports that is used in support of future phases/villages of the PUD, and plans to be used for construction. The past two years I have been tasked with aiding in construction of my team's projects, attending site meetings and coordinating with contractors throughout the construction process.



REPRESENTATIVE PROJECTS

Land Development Design
Stonebrooke Villages AA & BB—Sparks, Nevada; Design of infrastructure including utilities, paving, curb and gutter, etc. for 124 single family homes.
June 2022—March 2023
Contributed to the design of infrastructure for a 124-lot single-family residential development within the Stonebrooke master plan. I designed water and sewer systems and prepared cost estimates for each phase and developed detailed grading and drainage plans at the plot plan level to ensure compliance with governing agency requirements.

Land Development Design
Talus Valley East (TVE) Backbone Phase 2—Reno, Nevada; Design of backbone infrastructure to support future subdivisions and serve as the main collector road for the Talus Valley East planned unit development.
September 2022—November 2024
Worked with a small team to design backbone infrastructure supporting future subdivisions and a primary collector roadway. I Assisted in storm drain design using StormCAD and Civil 3D to evaluate 5- and 100-year storm events and supported sewer system design using FlowMaster to analyze velocity criteria and ensure compliance with city standards.

Land Development Design
Talus Valley East (TVE) 25—Reno, Nevada; Design of infrastructure including utilities, paving, etc. for 36 single family homes.
March 2023—July 2024
Participated in the design of a 36-lot residential subdivision within a planned unit development. I designed water and sewer layouts and performed a sanitary sewer analysis and prepared a technical sewer report that was reviewed and approved by applicable agencies.

Land Development Design
TVE Village 24S—Reno, Nevada; Design of infrastructure including utilities, paving, etc. for 39 single family homes.
May 2023—July 2024

Contributed to infrastructure design for a 39-lot subdivision. I designed water and storm drain systems and conducted StormCAD analyses for 5- and 100-year storm events. Ensured compliance with the Truckee Meadows Regional Design Manual and local agency standards.

Land Development Design

Harris Ranch Village 6—Sparks, Nevada; Design of infrastructure including utilities, paving, curb and gutter, for 101 single family homes.

January 2024—November 2024

Supported the design of infrastructure for a 101-lot residential development. I designed site grading and storm drain systems, I designed the site to be long by 20% to provide material to and adjacent project. I designed stormdrain infrastructure to meet 5- and 100-year storm requirements per city standards.

Land Development Design

TVE Village 23S-Reno, Nevada; Design of infrastructure including utilities, grading, curb and gutter, etc. for 89 single family homes
August 2023-June 2025

I worked on a team that focused on residential land development projects. I designed the water and storm drain layout, utilizing StormCAD I analyzed the storm drain pipe network to contain the 5 and 100-year storm events to meet the city design manual.

Land Development Design

TVTC Village 22-Reno, Nevada; Design of infrastructure including utilities, grading, paving, etc. for 136 single family homes
March 2025-February 2026

I was apart of a team with a primary focus on residential land development projects. I designed the grading of the site to meet required clean cap separations from clay and mercury contaminated soils. I designed the storm drain pipe network to contain the 5 and 100 year storm events per the city design manual.

Land Development Design

TVTC Backbone Phase 1—Reno, Nevada; Design of backbone infrastructure to support future subdivisions and serve as the main collector road for the TVTC planned unit development

April 2025 – January 2026

Worked on a large-scale (~168-acre) mixed-use development including residential and commercial areas. Led site grading and drainage design, addressing complex geotechnical constraints such as clay soils and mercury contamination requiring clean caps. Designed storm drain systems, cutoff ditches, and low-flow channels while maintaining regulatory requirements. Prepared a master drainage report approved by the city in January 2026.

Land Development Design

TVTC Backbone Phase 2—Reno, Nevada (Ongoing); Design of backbone infrastructure to support future subdivisions and serve as the main collector road for the TVTC planned unit development

January 2026—Present

Currently contributing to the master planning of a large development project. Responsible for grading and drainage design using Civil 3D and StormCAD. Optimized site grading to minimize imported fill while maintaining effective drainage. Designed storm drain systems to meet 5- and 100-year storm criteria and city requirements. Completed a master drainage report that is under review.

VENKAT KRISHNAN
SRINIVASAGOPALARAGHAVAN (24-063-19)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/25/2026

Citizenship
India

SUMMARY



Engineering Experience after EAC degree

Total Engineering Experience
8 years, 1 month

Experience under licensed engineer
3 years, 2 months

Disciplinary Action
None reported



EDUCATION



Meets NCEES Engineering Education Standard

Bachelors in Automobile Engineering
SRM University
April 2011–May 2015

Masters in Mechanical Engineering
Arizona State University
January 2016–December 2017

EXAMS



Fundamentals of Engineering (FE)
Arizona
January 2026

Principles and Practice of Engineering (PE)
Civil
Arizona
May 2026

LICENSES



Additional Licenses
None

VENKAT KRISHNAN SRINIVASAGOPALARAGHAVAN (24-063-19)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Hose Solutions Inc
Arizona (United States)
Sr. Product Engineer
May 2018—April 2023

Verified by
Nicolas Maria Steverlynck
nicolas.steverlynck@hosesolutions.com

Experience Summary
Full-Time
Engineering: 4 years, 11 months
Experience under licensed engineer:
None

TASKS

Sr. Product engineer on water infrastructure and dewatering projects including:

- Capital Infrastructure Improvement Projects.
- Rehabilitation planning for existing wells.
- Planning, design and installation of potable water wells for residential, mining and municipal clients.
- Planning, design and installation of dewatering systems in open pit and in-situ mines.
- Development of energy cost optimization tool comparing different pipe configurations.
- Process modeling of existing in-situ well system and providing recommendations for increasing capacity and expansion.
- Direction and management of multiple product suppliers for various engineering related challenges.
- Establishment of QA/QC measures for GD&T for overseas suppliers.

REPRESENTATIVE PROJECTS

Blaschak Anthracite, PA (2019-2020)

I designed and developed a barge dewatering system used to maintain water levels in an open pit at the Blaschak coal mine, PA. The project involved calculating the seasonal volume of water to be removed, the required pipe lengths and the corresponding head loss to determine the pumps required. The project was successfully completed in 2019 under the supervision and guidance of the mine engineer and is still in operation.

City of Midland, TX (2021-2022)

I worked on the rehabilitation, design and installation of 3 potable water wells for the City of Midland, TX. The project involved studying the water quality and contaminants of ground water and engineering solutions to increase the life of the well system. The ground water had a higher concentration of dissolved minerals which accelerated corrosion of steel pipes. I proposed the use of a high-pressure flexible drop pipe with 316 SS fittings to increase the corrosion resistance of the pipes. The design and development of the trailer and the wells were completed with the guidance and supervision of the City engineer. I also worked on the design and manufacturing of a customized trailer mounter hydraulic machine to help the installation and rehab of the wells. The City approved a CapEx project to convert all their wells to the proposed solutions over the next few years.

Aquifer Distribution, Alberta, Canada (2021-2023)

I developed an installation kit package for small residential potable water wells with a distributor in Canada. The DIY package included pumps, drop pipes and installation tools to assist with the installation of a typical residential water well in remote areas.

Freeport-Mcmoran Copper, AZ (2022-2023)

The Freeport copper mine in Baghdad, AZ, is located in an area with highly corrosive ground water where 304L stainless steel pumps and pipes would last no more than six months. The mine reached out to us for cost effective solutions to the corrosion problem. I studied the water quality report for the mine site and determined that standard stainless steel would no longer meet their requirements. I developed CAD files for our standard fittings and coordinated with a machine shop for custom made 904L stainless steel fittings. I also oversaw the installation of the pump and pipe with a hydraulic trailer mounted machine to ensure that all safety protocols were followed. The design and development were done with the guidance and supervision of the mine engineer.

City of Forest Lakes, AZ (2018-2019)

This project was to help the City of Forest Lakes, AZ, reduce the annual energy costs for their well sites. The project included studying their wells and understanding the reasons for a drop in the pump efficiency. The least efficient wells were identified and rehabilitated to improve their efficiency. The material of the pipes was changed to reduce overall head loss which also allowed the pumps to be downsized. I worked with the city engineer in determining the cost savings from the rehabilitated wells. The energy savings from the wells reduced their annual operational costs significantly, allowing the city to use the savings for other required upgrades which were not covered under CapEx.

VENKAT KRISHNAN SRINIVASAGOPALARAGHAVAN (24-063-19)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Wilson Engineers LLC
Arizona (United States)
Project Engineer
April 2023—June 2026

Verified by
SRIKANTH YAMANI
srikanth.yamani@wilson-
engineers.com

Experience Summary
Full-Time
Engineering: 3 years, 2 months
Experience under licensed engineer:
3 years, 2 months



TASKS

Project Engineer on water & wastewater projects including:

- Design and Construction Administration of potable water wells along with transmission line.
- Study and Rehabilitation planning of existing treatment facilities for the City of Marysville, WA.
- Construction Administration of a 0.5 MGD lift station in the Town of Florence, AZ
- Phase 1 design of "Merrill Ranch" water reclamation facility in the Town of Florence, AZ.
- Development of sliplining plans for large diameter potable water line for the City of Phoenix, AZ.
- Direction and management of sub-consultants from various engineering disciplines.
- Development of updated blending plans for the addition of new water wells in the City of Surprise, AZ.
- Development of a water and wastewater masterplan for the "Merrill Ranch" development in the Town of Florence, AZ.



REPRESENTATIVE PROJECTS

Town of Florence, AZ - Merrill Ranch Community Masterplan (2023-2024)

I developed the water and wastewater masterplan for the Merrill Ranch development in the Town of Florence, AZ. I analyzed the proposed development and estimated the water demand and the wastewater flows from the development. Using the projections, I recommended the number of potable water wells required, size the potable water booster pump station and the water reclamation facility needed. I estimated the construction costs for the required infrastructure. The developed masterplan was used as the basis for the design of the Merrill Ranch Water Reclamation Facility.

Town of Florence, AZ - Merrill Ranch – Water Reclamation Facility (2024-2026)

The scope of this project was to develop plans for a new 1.5 MGD membrane WRF in the Town of Florence for an upcoming development. I designed the RAS/WAS pump station and the Solids Handling System for the new facility. I calculated the size and number of the pumps required for the RAS/WAS pump station and the sludge feed pump station. I coordinated with multiple disciplines (electrical, instrumentation, structural, mechanical & architecture) to develop the design. I also served as the design team leader responsible for the overall project coordination with the team members and other engineering disciplines.

Town of Florence, AZ – Anthem at Merrill Ranch Lift Station (2024-2025)

The scope of this project was Construction Administration services for the construction of a 0.5 MGD lift station. I served as the engineer of responsible charge overseeing various construction activities and coordinating different engineering disciplines and parties. I coordinated, the review and approval for all submittals, RFIs and permits required for the site to be operational.

City of Surprise, AZ – Desert Oasis Well No. 3 (2024-2026)

This project involved the design and construction of a new 750-gpm potable water well for the City and a 12-inch transmission line from the well site to a treatment plant. I was the lead design engineer for design development. I designed the well site and the plan & profile of the well transmission line. I calculated the design points for the well based on the flow rate and TDH. My role also involved coordination with other engineering disciplines and permitting agencies. I am working as a project engineer overseeing the construction and inspection of this project. I am currently reviewing and responding to all the submittals, RFI and EDs from the field.

City of Surprise, AZ – Marley Park Well No. 3 (2024-2025)

I worked on the startup plan and updating the existing blending plan for this project. I reviewed and coordinated the startup plan developed by the contractor with the City to ensure all the required tests were included. I updated the existing blending plan to include Marley Park Well No. 3. The updated blending plan would include all combinations of wells that would result in all contaminants being within acceptable limits.

City of Phoenix – Scenario 3B (2023-2024)

The scope of this project was to develop Phase 1 and Phase 4 slip lining plans for an existing City of Phoenix 48-inch potable waterline. The existing PCCP pipe had corroded and needed to be rehabilitated by slip lining a 42-inch steel pipe. I analyzed the existing utilities and recommended the best locations for the access pits. Multiple sections of the pipe were located under residential properties in Phase 1. As a result, I developed additional plans to realign the pipe through the existing City Right Of

Way. I designed the plan and profile of the realigned section of pipe along with the slip lining plans.

VENKAT KRISHNAN
SRINIVASAGOPALARAGHAVAN (24-063-19)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

Start Date	End Date	Explanation
June 2015	December 2015	I took 6 months off before my masters and studied French.

MARIE STOKMAN (23-798-49)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
07/06/2026

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
3 years, 1 month

Total Engineering
Experience
3 years, 1 month

Experience under licensed
engineer
3 years, 1 month

Disciplinary Action
None reported



EDUCATION



Bachelors in Environmental Engineering (EAC)
Arizona State University
August 2018–May 2022

Masters in Civil, Environmental, and Sustainable
Engineering
Arizona State University
August 2022–May 2023



EXAMS



Fundamentals of Engineering (FE)
Arizona
February 2025

Principles and Practice of Engineering (PE)
Civil
Arizona
June 2026

LICENSES



Additional Licenses
None

MARIE STOKMAN (23-798-49)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Wilson Engineers
Arizona (United States)
Design Engineer
June 2023—July 2026

Verified by
Branden Edward Witkowski
BEWitkowski@Wilson-Engineers.com

Experience Summary
Full-Time
Engineering: 3 years, 1 month
Post EAC degree: 3 years, 1 month
Experience under licensed engineer:
3 years, 1 month

TASKS

I serve as a Design Engineer responsible for the planning, analysis, and design of municipal water and wastewater infrastructure projects from preliminary design through construction. My responsibilities include developing engineering calculations, evaluating design alternatives, preparing technical reports, developing construction drawings and specifications, and preparing engineer's cost estimates.

I design facilities including groundwater production and aquifer storage and recovery well sites, booster pump stations, pressure reducing valve stations, lift stations, water treatment facilities, water reclamation facilities, and associated process piping and utility infrastructure. I perform hydraulic analyses, equipment sizing, treatment process evaluations, and utility design while applying engineering judgment to develop practical, code compliant, and cost effective solutions that satisfy client objectives and regulatory requirements.

I coordinate with civil, structural, mechanical, electrical, instrumentation, and architectural disciplines, as well as clients, regulatory agencies, equipment vendors, and subconsultants, to develop complete construction documents. During construction, I review shop drawings, product submittals, requests for information, and contractor change requests to verify compliance with the design intent and resolve technical issues. My work is 100% engineering.

REPRESENTATIVE PROJECTS

City of Phoenix Drought Resiliency Groundwater Program
Phoenix, Arizona | June 2023 to Present

The City of Phoenix Drought Resiliency Groundwater Program is a multi phase program to improve long term water reliability through the design and construction of groundwater production wells, aquifer storage and recovery (ASR) wells, arsenic treatment facilities, and associated infrastructure.

I serve as a design engineer responsible for the design of groundwater production wells, ASR well facilities, arsenic treatment systems, process piping, and chemical systems. I perform hydraulic calculations, prepare construction drawings, technical specifications, and design reports, and coordinate with the City of Phoenix, regulatory agencies, contractors, equipment vendors, and multidisciplinary engineering teams throughout design and construction. During construction, I review submittals and requests for information, support startup activities, and resolve field issues while maintaining the design intent. One of the most challenging aspects of this program has been managing the design and construction support of more than ten active well and treatment facility sites simultaneously, each at different stages of design and construction. The accelerated schedule, driven by increased groundwater demand resulting from ongoing drought conditions, has required effective prioritization, coordination with multiple project teams, and timely engineering decisions to keep projects progressing while maintaining design quality and regulatory compliance.

Fountain Hills Sanitary District ASR Well No. 1 Phase
Fountain Hills, Arizona | October 2023 to March 2025

This project replaced an aging underground aquifer storage and recovery well vault with a new above ground control facility to improve safety, accessibility, and long term operability while maintaining the District's reclaimed water storage and recovery operations within Fountain Park.

I served as the construction engineer during construction of ASR Well No. 1. My responsibilities included reviewing contractor submittals and requests for information, performing site inspections, coordinating with the contractor, owner, and design team,

resolving field issues, and supporting startup and commissioning activities. This role required continuous communication between the project team and timely engineering decisions to maintain the project schedule while minimizing impacts to park operations, public access, and ongoing District operations.

Crossroads Park Aquifer Storage and Recovery Wells (CIP WW0940)

Town of Gilbert, Arizona | October 2025 to Present

The Crossroads Park Aquifer Storage and Recovery Wells project consists of the preliminary evaluation and design of up to four aquifer storage and recovery wells to improve the Town of Gilbert's long term water reliability, expand recharge capacity, and support sustainable water management.

I have worked on this project from inception through the 30 percent design submittal as a design engineer. My responsibilities include developing the preliminary design, preparing engineering calculations, producing construction drawings, writing the Design Basis Report, coordinating with the Town and subconsultants, and supporting permitting efforts. The most technically challenging aspect of the project has been developing a preliminary design based on limited hydrogeologic information and continuously refining the design as exploratory drilling results, groundwater testing, and hydrogeologic analyses become available. This has required evaluating changing design assumptions, updating calculations, and adapting the design while maintaining project objectives and coordinating with the multidisciplinary project team.

ALEX TANG (22-323-63)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/11/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
4 years

Total Engineering Experience
4 years

Experience under licensed engineer
4 years

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering (EAC)
University of Nevada, Reno
August 2018–May 2022

EXAMS



Fundamentals of Engineering (FE)
Nevada
March 2022

Principles and Practice of Engineering (PE)
Civil
Nevada
December 2024



LICENSES



Additional Licenses
None

ALEX TANG (22-323-63)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Kimley-Horn
Nevada (United States)
Analyst
June 2022—June 2026

Verified by
David Jeffrey Giacomini
david.giacomini@kimley-horn.com

Experience Summary
Full-Time
Engineering: 4 years
Post EAC degree: 4 years
Experience under licensed engineer: 4 years



TASKS

At Kimley-Horn I have worked under the supervision of licensed professional engineers performing transportation planning and traffic engineering analyses for public and private sector projects throughout Nevada, California, Idaho, Illinois, Kansas, Iowa, and Arizona. Throughout my four years of experience, my responsibilities progressively increased in technical complexity, independent engineering judgment, project coordination, client interaction, and mentorship of junior staff.

I completed technical analyses and reports for traffic impact studies, traffic operations evaluations, traffic entry/access studies, trip generation letters, transportation master plans, Local Road Safety Plans, Safety Action Plans, Safe Routes to School studies, corridor studies, and multimodal transportation projects. Projects included commercial, industrial, residential, tribal, recreational, and regional transportation systems for agencies including NDOT, RTC Washoe, local municipalities, tribal governments, state DOTs, and MPOs.

As part of these projects, I conducted roadway, intersection, and freeway analyses including level of service evaluations, trip generation, traffic forecasting, trip distribution and assignment, traffic volume growth and mode choice analysis, queuing analysis, signal warrant analysis, crash analysis, access management evaluations, site circulation analysis, parking evaluations, pedestrian walkway analysis, and qualitative safety assessments. I have communicated the technical findings and recommendations via technical memoranda, transportation plans, CAD/GIS exhibits, and safety plans. Larger efforts involved statewide and countywide systemic safety assessments and implementation strategies. I also conducted field reviews for Safe Routes to School evaluations and school site circulation studies, where I assessed pedestrian and bicycle conditions, pick-up/drop-off operations, traffic circulation, access constraints, and safety considerations on and around school campuses.

Non-engineering responsibilities included providing technical mentorship and training for younger staff, participating in an internal program focused on AI, automation, GIS, Power BI, Excel, Python, and process efficiency initiatives, assisting with client coordination, proposal development, marketing efforts, stakeholder engagement, and attendance at professional meetings and conferences. Engineering responsibilities accounted for approximately 96% of the engagement.



REPRESENTATIVE PROJECTS

Nevada Department of Transportation Speed Management Action Plan

Scope: Statewide speed management and safety analysis for the NDOT Speed Management Action Plan.

Location: Nevada (Statewide)

Dates: November 2022 - October 2023

Description: I supported statewide speed and safety analysis using RITIS speed data, ArcGIS Pro, and Python. I developed a Python-based workflow and linear referencing system to process and map 85th percentile travel speeds on Nevada roadways and compare them to posted speed limits. Using GIS analysis and roadway context, including land use and surrounding development, I identified segments with speed management concerns and evaluated speed consistency and roadway environment. I prepared statewide speed maps, charts, and exhibits and supported recommendations for posted speed limits and speed management strategies.

Iowa Safety Action Plan

Scope: Comprehensive Safety Action Plans for 97 Iowa counties in support of SS4A.

Location: Iowa (Statewide)

Dates: July 2023 - July 2025

Description: I supported Safety Action Plans for 97 Iowa counties to help each county obtain funding via SS4A. Building on prior Kansas DOT Local Road Safety Plan methodologies, I led portions of the technical analysis and statewide database development related to background information gathering, database development, data analysis, project selection methodology, development

of projects for inclusion in the Safety Action Plans, and final Safety Action Plan development. I developed and managed a GIS-based database containing roadway segment, intersection, and curve characteristics, including AADT, roadway width, pavement condition, crash history, curve radius, curve length, lighting, stop spacing, daily entering volume, and safety features (signing and striping). Using ArcGIS Pro, Excel, VBA, and Python, I automated data processing, ranking, and project sheet workflows. I conducted systemic safety analyses to identify high-risk segments, intersections, and curves based on roadway characteristics, crash history, and risk factors. Based on data analysis and input from the counties, I helped prioritize the top 30 locations in each county and prepared project summary sheets with safety recommendations, planning-level costs, and countermeasures based on FHWA guidance and CMF Clearinghouse entries.

Yuma Transportation Master Plan

Scope: Integrated multimodal transportation master plan for the City of Yuma.

Location: Yuma, Arizona

Dates: February 2024 - August 2025

Description: I served as lead analyst for the Yuma Integrated Multimodal Transportation Master Plan. I reviewed prior planning documents, evaluated roadway classifications and transportation standards, analyzed crash data, reviewed active transportation and transit conditions, and developed GIS exhibits documenting roadway, pedestrian, bicycle, transit, safety, land use, and demographic conditions. I evaluated existing and future deficiencies using traffic volumes, volume-to-capacity based level of service, roadway connectivity, multimodal access, and growth assumptions. I helped develop roadway, pedestrian, bicycle, and transit recommendations to address congestion, safety, connectivity, and mobility needs. I prepared technical documentation, maps, tables, prioritization materials, implementation timeframes, and funding strategies. I helped develop and prioritize 129 multimodal transportation projects with an estimated planning-level cost of approximately \$500 million. My work products supported the final TMP report, public engagement, Steering Committee coordination, and City decision-making.

Various Traffic Impact Studies

Scope: Traffic impact studies and transportation analyses for commercial, residential, industrial, mixed-use, institutional, and special-use developments.

Location: Nevada (Statewide)

Dates: June 2022 - June 2026

Description: I worked on more than 45 traffic impact studies, traffic impact analyses, trip generation letters, traffic entry/access studies, queuing analyses, and traffic operations memoranda. Projects included retail, warehouse, residential, mixed-use, school, hotel, recreational, data center, solar, convenience store, and regional developments. I collected field data, reviewed traffic counts and crash data, developed trip generation estimates, prepared trip distribution and assignment assumptions, calculated growth rates, and analyzed roadway and intersection operations using Synchro/SimTraffic, SIDRA, Excel, and GIS tools. I reported level of service, delay, queuing, storage needs, access spacing, crash history, and deficiencies. I developed recommendations to satisfy agency level of service, queuing, access management, and safety requirements. Complex solutions I was involved with were signal timing coordination, high-T intersection concepts, employee scheduling adjustments, internal park-and-ride systems, and developing hourly trip generation using field-collected data. I also coordinated with internal teams, agencies, clients to meet project needs, scheduling, scope, and billing.

SAMANTHA TRIEST (21-825-01)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/08/2026

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
2 years

Total Engineering
Experience
2 years

Experience under licensed
engineer
2 years

Disciplinary Action
None reported



EDUCATION



Bachelors in Environmental Engineering (EAC)
University of Nevada, Reno
August 2017–May 2022

Masters in Civil and Environmental Engineering
University of Nevada, Reno
August 2022–May 2024

EXAMS



Fundamentals of Engineering (FE)
Nevada
May 2022

Principles and Practice of Engineering (PE)
Civil
Nevada
August 2024

LICENSES



Additional Licenses
None

WORK EXPERIENCE

Kimley-Horn & Associates
Nevada (United States)
Civil Analyst/Engineer in Training
June 2024—June 2026

Verified by
Stephen Hughey
stephen.hughey@kimley-horn.com

Experience Summary
Full-Time
Engineering: 2 years
Post EAC degree: 2 years
Experience under licensed engineer:
2 years



TASKS

My experience since full-time employment in June 2024 has been private development projects within Northern Nevada, focused on commercial, industrial, and data center developments, including offsite utility infrastructure improvements. Prior to full-time employment, I had approximately three years of internship experience in public works, commercial, and industrial projects. As an intern, I annotated plans (erosion control, site, utility, and grading and drainage plans) and addressed redlines. As I progressed, I began taking on small design tasks, transitioning to a full-time role integrated into project design in June 2024.

In my current role, I have been involved in all phases of the project cycle, including due diligence, site planning and design, permitting, and construction administration. I regularly design utility systems, including fire water, domestic water, sanitary sewer, and industrial wastewater in both 2D and 3D, in accordance with local and state regulatory standards. I perform hydrology and hydraulic analysis for stormwater systems, including design of underground detention systems. I design site layouts with building placement, access and circulation, parking, ADA compliance, and landscaping requirements. I apply engineering judgement to evaluate project feasibility during due diligence, developing site, utility, and grading designs in conformance with local, state, and client standards while assessing constructability of improvements. I prepare permit packages for agencies including NDOT, NDEP, NV Energy, TRIGID, TRI-ARC, TMWA, Storey County, and the City of Reno. During construction, I respond to RFIs, review submittals, coordinate change orders, and prepare construction sketches.

I am client-facing and coordinate with consultants (architects, electrical, mechanical, plumbing, structural, geotechnical, and survey), manage project scopes, develop schedules, and review junior staff work. Over time, my responsibilities have progressed from design tasks under supervision to leading design and coordination. I perform design work independently with oversight as needed and am responsible for technical accuracy and quality of my work.



REPRESENTATIVE PROJECTS

-Keystone Data Center, Reno, NV, Data Center (2024-2026)

Keystone Data center is a small data center I have been heavily involved in from due diligence, design, permitting, and is currently in construction. During due diligence, I evaluated publicly available data, environmental constraints, zoning/land use and easements, and existing infrastructure to determine site feasibility and identify project constraints. I wrote a technical memorandum of land use requirements, design standards, and necessary permitting and coordinating with the City of Reno, TMWA, Union Pacific Railroad, and the local tribal colony. I wrote the Basis of Design report and made design decisions in Autodesk Civil 3D regarding site layout, driveway access, vehicle circulation based on truck turning movement, ADA conformance, and mitigate site constraints. I designed wet utilities (fire, domestic water, sanitary sewer, storm drain, and underground detention) in both 2D and 3D, mitigating utility conflicts while maintaining required separations and evaluating constructability. I analyzed the 5-yr and 100-yr storm events using HydroCAD and wrote the Drainage Report in accordance with City of Reno criteria and the Truckee Meadows Regional Drainage Manual. I graded sidewalks for ADA compliance, site swales, and equipment yards. I developed presentation materials for the Conditional Use Permit process and attended the Planning Commission meeting. I prepared permit packages for the City of Reno and TMWA, addressing review comments. During construction, I attend weekly stakeholder coordination meetings, respond to RFIs, and review submittals to conform with the permitted design plans.

-TRIGID Offsite Improvements, Storey County, NV, Utility Infrastructure (2025-2026)

The TRIGID Offsite Improvements project is a large offsite (approx. 3-miles) wastewater conveyance project supporting current

and future development in the Tahoe Reno Industrial Center, including a future Advanced Water Treatment Facility. I have been heavily involved from design through construction. I designed approximately two miles of wastewater gravity main and one mile of wastewater force main in plan and profile, making alignment, slope, and depth decisions to mitigate conflicts and maintain constructability while conforming with regional and local standards. I graded the site and drainage swales for the TRIGID-owned lift station and developed phasing plans, including temporary connections, construction piping, and final utility laterals to support future development. I prepared permit packages and revised plans in response to agency comments for approvals from Storey County, NDOT, TRIGID, NDEP, and drafted initial easement linework for dedication from the private client to the GID. The project is currently under construction, where I coordinate with the site contractor, GID, and Client, develop details for the project with GID input, attend weekly OAC meetings, respond to RFIs, review submittals, and prepare construction sketches to address field conditions. I designed and graded a temporary access road to mitigate conflicts near the new lift station to facilitate construction.

EMILY WOLDER (22-316-90)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/18/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
4 years, 1 month

Total Engineering Experience
4 years, 1 month

Experience under licensed engineer
4 years, 1 month

Disciplinary Action
None reported



EDUCATION



Bachelors in Environmental Engineering (EAC)
University of Nevada, Reno
August 2018–May 2022

EXAMS



Fundamentals of Engineering (FE)
Nevada
October 2021

Principles and Practice of Engineering (PE)
Civil
Nevada
October 2022



LICENSES



Additional Licenses
None

WORK EXPERIENCE

Lumos & Associates, Inc.
Nevada (United States)
Project Coordinator
May 2022—June 2026

Verified by
Mara Quiroga
mquiroga@lumosinc.com

Experience Summary
Full-Time
Engineering: 4 years, 1 month
Post EAC degree: 4 years, 1 month
Experience under licensed engineer:
4 years, 1 month



TASKS

Engineering Tech II 0-7 months

- Prepare plans, cost estimates, and technical specifications for water/wastewater projects.
- Analyze and evaluate water demand data and develop average day, max day, and peak hour demands.
- Develop and analyze water distribution system models under variable flow scenarios.
- Prepare lift station wet well sizing & system curve calculations.
- Pump selection based on system curve calculations and duty points as determined through analysis of current and projected station demand and applicable design standards.
- Analyze existing and design new water/wastewater pumping & piping systems based on applicable regulations.

Project Designer - Senior Project Designer 7-31 months

- Perform construction observation/documentation.
- Perform field calculations and designs.
- Perform field analyses of designed system operation versus actual field performance.
- Identify and evaluate design conflicts in the field and provide recommendations for solutions.
- Develop plans for field modifications with supporting calculations.
- Continuously verify construction materials/equipment, safety, and plan/spec implementation.
- Submittal/RFI review.
- Develop record drawings.

Project Coordinator 31-48 months

- Perform system curve calculations and provide peer review of system curve calculations.
- Select appropriate pumps for water/wastewater pump stations and provide peer/QC review of pump selections made by peers.
- Perform gravity sewer flow calculations.
- Write technical engineering reports/memos/letters.
- Prepare technical specifications and construction contract documents.
- Prepare construction cost estimates.
- Review plans, specs, and cost estimates developed by peers.
- Analyze existing water distribution systems, wastewater collection systems, and any component thereof in determination of regulatory compliance, new project or rehabilitation conflicts/constraints, capacity and operational performance.
- Management of another engineer intern since 1/2026. I am responsible for managing their workload and progress, as well as furthering their professional development of engineering judgement, design application, pump station and piping calculations, and constructability considerations.



REPRESENTATIVE PROJECTS

Bermuda Water Company Water Masterplan
Masterplan Development 5/2022-10/2022

I was part of a team developing a masterplan for the Bermuda Water Company water system. I verified flow, pipe network, and operational data provided by the owner to develop an InfoWater Pro water distribution system model and evaluated the system performance compared to applicable regulations. I verified the accuracy of the model results with manually collected operational data. I correlated water main break data with excessive system pressures to determine high priority pipeline replacement projects. I wrote the section of the masterplan explaining the development and results of the model, identifying areas of operational concern with respect to applicable regulations and actively observed issues and providing recommendations for improvements.

Orr Ditch Booster Pump Station and Hydroelectric Facility Project:
Construction: 12/2022-9/2025

I performed full-time construction management assistance for the construction of a 50,000 gpm raw water pump station and hydroelectrical facility. I performed construction observation and detailed documentation of construction activities. I reviewed RFIs and Submittals and provided comments. I performed field calculations including system curve and NPSH calculations for a 30,000 gpm back-up pump station. I analyzed the back-up pump system performance characteristics compared to expected pump performance based on my system curve and NPSH calculations. I evaluated the back-up pump system intake design against Hydraulic Institute standards and identified intake design issues which directly contributed to insufficient pump capacity and cavitation through poor intake hydraulic characteristics. I calculated culvert performance for a range of flows and potential culvert sizes to identify overtopping constraints for a ditch bypass culvert. I developed multiple field design solutions for field conflicts including redesign of a pump seal water system piping layout, redesign of grading and retaining wall layout, and modifying invert elevations of pipes in conflict. I provided technical solution memos, visual exhibits, and supporting data to verify field designs. I reviewed field conflicts and provided recommended solutions. I continuously monitored and verified construction safety, materials and equipment, and correct interpretation of the plans and specs.

Lyon County Utility Department Lift Station #1 Evaluation and Technical Memorandum Evaluation & Technical Memorandum
10/2025-5/2026

I performed an evaluation of an aging lift station based on site observations and verified operational information and data in order to make recommendations for station improvements and replacement alternatives. I reviewed influent flow data to determine average and peak flow rates for use in capacity and cycling analyses. I performed an analysis of the existing station performance considering wet well storage capacity and pump operational conditions considering Hydraulic Institute recommendations and Ten State Standards. I calculated pump cycling time data for various flow scenarios and compared to manually collected pump cycling data to verify accuracy. I analyzed the pump cycling results against industry standard guidelines and determined cycling as a primary cause of mechanical issues the pumps/motors were experiencing. I performed system curve calculations and upstream gravity/downstream force main flow calculations to determine remaining system capacity. Based on the collective station analysis I performed, I made recommendations for temporary modifications that would improve station function until a new station could be designed and constructed. I also provided high level design alternatives for a replacement station, considering constructability issues, cost, as well as other site and maintenance constraints.

Broken Hill BPS Project
Design: 8/2025-Present

I am responsible for the management and coordination of the client, sub-consultants, and internal design team for a project involving the design of a new 3,000gpm potable water pump station. I designed the layout of the pump station site and developed and conveyed to the client a solution for rerouting site drainage that ultimately saved a large portion of the available area of developable land. I made selections for horizontal split-case pumps for the station based on water distribution system requirements and developed the layout and sizes of the station piping, flow meter, valves, air/vacuum valves and internal pressure reducing branch considering NAC 445A and Hydraulic Institute requirements. I determined the appropriate pipe materials, material isolation and cathodic protection system for the pump station. I reviewed the plans for the suction and discharge mains and provided comments based on NAC 445A regulations and constructability concerns.

BI TAO YAN (23-200-85)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/05/2026

Citizenship
Canada

SUMMARY



Engineering Experience after EAC degree

Total Engineering Experience
7 years

Experience under licensed engineer
4 years

Disciplinary Action
None reported



EDUCATION



Meets NCEES Engineering Education Standard

Bachelors in Environmental Engineering
University of Waterloo
September 2012–June 2017

Masters in Civil Engineering
University of Toronto
September 2017–November 2018



EXAMS



Fundamentals of Engineering (FE)
California
June 2024

Principles and Practice of Engineering (PE)
Civil
California
April 2025

LICENSES



Additional Licenses
None

BI TAO YAN (23-200-85)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

WSP Global
Ontario (Canada)
Municipal Designer
January 2019—January 2022

Verified by
Michael James Flowers
michael.flowers@wsp.com

Experience Summary
Full-Time
Engineering: 3 years
Experience under licensed engineer:
None



TASKS

- Model, calibrate and analyze water distribution, sanitary and stormwater systems
- Design stormwater drainage systems and water distribution systems
- Deliver technical reports related to hydraulic modelling, stormwater management plans and development plans, etc.
- Manage, curate, and utilize geospatial data for engineering purposes.
- Prepare project work plan, scope, schedule and budget



REPRESENTATIVE PROJECTS

- City of Barrie Water Distribution and Storage Master Plan, Barrie, ON, Canada (2016-2019): Engineer for water modeling and capital project cost analysis. Study reporting for the calibration of existing model based on provided SCADA record and hydrant flow tests results, review of system pressure and provide recommendations on future capital improvements. Client: Corporation of the City of Barrie.
- Kingston East Water Model Review and Updates, ON, Canada (2020-ongoing): Water Modeller for the water distribution system in Kingston East. Study reporting for the calibration of existing model based on provided SCADA record, review of system pressure and investigate on the current system deficiencies in Kingston East. Client: City of Kingston.
- Inter-Urban Water Supply Study, Norfolk County, ON, Canada (2018-ongoing): Technical support for water modelling using InfoWater with ArcGIS map production and study reporting for the review of new transmission watermain interconnection between multiple communities located in the County and the evaluation of servicing alternatives. Client: Corporation of Norfolk County.
- Limoges Water and Wastewater Servicing Class Environmental Assessment, Russell, ON, Canada (2018-ongoing): Technical support for water and wastewater modelling using InfoWater and InfoSWMM respectively along with ArcGIS map production and review of hydraulics. Evaluation and cost analysis of alternatives. Client: Township of Russell.
- York Region Transient Analysis, York Region, ON, Canada (2018-ongoing): Engineer for water modeling using InfoWater and pipeline digitization using AutoCAD/ArcMap. Client: York Region.
- Parliament Hill Rehabilitation, Ottawa, ON, Canada (2017-Ongoing): Engineer for hydraulic modeling using WaterGEMS. Client: City of Ottawa.
- Providence Manor Redevelopment, Kingston, ON, Canada (2019-Ongoing): Water Modeller for the water distribution system in the Providence Manor neighbourhood. Study reporting for the calibration of existing model based on provided hydrant flow tests results, review of available fire flow and pressure. Client: G Architects.

WORK EXPERIENCE

WSP
California (United States)
Pipeline Engineer
May 2022—May 2026

Verified by
Wei Wang
wade.wang@wsp.com

Experience Summary
Full-Time
Engineering: 4 years
Experience under licensed engineer:
4 years



TASKS

- Work closely with multidiscipline teams in the design of pipelines systems including planning, feasibility studies, permitting, detail design, procurement, construction, and deactivation/demolition.
- Provide engineering support to pipeline routing studies, stress analysis, and detailed engineering design of water, wastewater, oil & gas, and slurry pipeline systems.
- Conduct hydraulic and hydrologic assessments for water distribution, sanitary and stormwater systems.
- Prepare and review documents proposals, technical reports, workplans, cost estimates, design/drawing packages, calculations, and other client correspondence.
- Manage project delivery in accordance with company procedures and quality management plans.
- Interact with clients, including preparation for and participation in meetings, preparation of progress reports, proposals, and other correspondence, maintaining responsive and positive client relationships.



REPRESENTATIVE PROJECTS

I worked with my manager Wade on many projects. For example, I served as the pipeline engineer for Waste Management's Anderson Facility contact water dewatering system design. The project involved pumping contact water from ponds to a J-stand using self-priming pumps through HDPE pipelines. I independently evaluated hydraulic grade lines for multiple existing and proposed operating scenarios and selected the pipe material, diameter, and wall thickness based on the hydraulic results, which was DR11 6" and 8" line for each of the pond. I also performed pump sizing to ensure efficient operation while meeting the required design flow rate. In addition to the mechanical pipeline and pump design, I coordinated with the pump vendor and an electrical engineering design subcontractor to integrate system controls and instrumentation into the overall mechanical design.

Another project that I worked on was the Lancaster Clean Energy Center hydrogen line feasibility study. I led the evaluation of critical design aspects for the 72,440-foot, 24" underground hydrogen storage pipeline, ensuring compliance with ASME B31.12 standards. I selected API 5L Grade X52 PSL2 steel for the pipeline material, considering hydrogen embrittlement and corrosion prevention. I confirmed the pipe wall thickness based on design pressure and material strength, selecting 0.688" for the required thickness. For pipeline fittings, I mandated a 5D bending radius to support future inspection needs. I also addressed hydrogen permeation, calculating minimal risk of cracking from cyclic loads. I coordinated cathodic protection strategies, evaluating both impressed current and sacrificial anode systems. I recommended an open-cut trench installation with specific clearances between pipes and ensured appropriate backfill compaction for pipeline restraint. I also integrated an inspection plan with provisions for pigging, ensuring periodic integrity checks and safe pipeline operations. Lastly, I participated in the decision-making for pipeline crossing at creek locations, considering both open-cut and HDD installation methods.

GENERAL

SUMMARY

	Applying To Nevada Application Type Initial - PE Application Date 06/19/2026 Citizenship United States		Engineering Experience after EAC degree 2 years Total Engineering Experience 2 years Experience under licensed engineer 2 years Disciplinary Action None reported	  
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EDUCATION

	Bachelors in Civil Engineering (EAC) Purdue University, West Lafayette August 2019–May 2023 Masters in Civil Engineering Purdue University, West Lafayette August 2023–May 2024	
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EXAMS

	Fundamentals of Engineering (FE) Indiana PE May 2023 Principles and Practice of Engineering (PE) Civil Nevada March 2026	LICENSES  Additional Licenses None
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WORK EXPERIENCE

GCW, Inc.
Nevada (United States)
Engineering Intern 1
June 2024—June 2026

Verified by
Johnnie Richard Pate
JPate@gcwengineering.com

Experience Summary
Full-Time
Engineering: 2 years
Post EAC degree: 2 years
Experience under licensed engineer:
2 years



TASKS

After graduating with my Bachelor's degree in May 2023, I joined the GCW transportation department as a summer intern where I learned the fundamentals of roadway design and traffic analysis. In Fall 2023, I left to pursue my Master's degree as a full-time student.

After graduating with my Master's degree in May 2024, I returned to the GCW transportation department as a full-time Engineering Intern 1. Since then, I have worked on a variety of projects from initial setup to approval, including roadway improvement plans, land development projects, and traffic studies. My work has included drawing existing utilities from as-built drawings, drafting conceptual roadway geometry exhibits, preparing quantities for the cost estimate, and creating trip distribution and turning movement count figures.

I have also taken on design-oriented tasks, such as designing traffic signals, creating underground storm drain and utility networks, and building discrete traffic models for traffic analysis. Software I regularly use are AutoCAD Civil3D, PTV Vistro, and Highway Capacity Software (HCS). Additionally, I have conducted field work in the form of observing signal timing and queue service times.



REPRESENTATIVE PROJECTS

Project: Haas Phase 2 Industrial Development
Location: Henderson, NV
(July 2024– March 2025)

I worked on both the traffic study and improvement plans. For the traffic study, I calculated the background traffic growth rate by reviewing nearby NDOT count station data. I determined the overall site trip generation using the ITE trip generation manual. I built the traffic model for future project buildout, verified that the proposed study intersection configurations achieved an acceptable level of service during peak hours, and calculated the turning lane queue storage lengths per the City of Henderson guidelines. I created several supporting figures and contributed to the writing of the traffic study report. For the improvement plans, I was tasked with designing the water and sewer pipe networks for the 69-acre site, as well as helping with the annotation for the plan set. I created details, typical sections, and prepared quantities for the cost estimate.

Project: Stewart Avenue – 6th Street to Nellis Boulevard
Location: Las Vegas, NV
(April 2025 – December 2025)

I was tasked with the 60% traffic signal design for six of the project's signalized intersections. I drew the existing infrastructure from as-built plans and determined the proposed signal pole locations, signal head spacing, loop detector layouts, and created the conduit and wire schedules in compliance with the MUTCD, ADA/PROWAG, and City of Las Vegas standards. Guidance from the AASHTO Bike Guide was also used to design a signalized two-way cycle track for a portion of the corridor.

Project: Gillespie Street Improvements
Location: Henderson, NV
(January 2026 – Present)

I worked on both the traffic study and improvement plans. For the traffic study, I interpolated the 2024 and 2050 Henderson travel demand model outputs into volumes at five study intersections for the opening year 2027, design year 2050, and several intermediate years. I used HCS to conduct signal warrant analyses at each intersection and year and summarized the results in the traffic study report. For the improvement plans, I drew in the existing utilities from as-built drawings for the 2.6-mile corridor. I laid out the roadway geometry, striping, and streetlighting for an undeveloped mile long segment, and conducted an alternatives analysis to find interim designs that kept grading limits within existing easements.

Electrical

RYAN DANIEL (14-514-32)

All work experience reviewed by two licensed professionals

DISCIPLINE: ELECTRICAL

GENERAL



Applying To
Nevada

Application Type
Comity - PE

Application Date
04/17/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
23 years, 8 months

Total Engineering Experience
23 years, 8 months

Experience under licensed engineer
18 years, 4 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Electrical Engineering (EAC)
University of Idaho
August 1997–May 2002

NOTE: First discipline specific Electrical license. Has a Control Systems license in Nevada.

EXAMS



Principles and Practice of Engineering (PE)
Control Systems
Idaho
October 2013

Fundamentals of Engineering (FE)
Idaho
April 2002

Principles and Practice of Engineering (PE)
Electrical
Idaho
October 2009



LICENSES



Initial License
Idaho
Issued: December 2009
Expires: September 2026

Additional Licenses
NV

RYAN DANIEL (14-514-32)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Puget Sound Naval Shipyard
Nuclear Engineer - Electrical Systems
June 2002—December 2004

Verified by
Blake Hill

Experience Summary
Full-Time
Engineering: 2 years, 6 months
Post EAC degree: 2 years, 6 months
Experience under licensed engineer:
None



DESCRIPTION

Worked with electricians, inspectors and other engineers repairing, modifying and refurbishing electrical and control systems associated with the nuclear power plants on submarines and aircraft carriers. Wrote technical work instructions to insure the work was done in accordance with the applicable Nuclear Power Manuals and other standards. Became the lead engineer on the installation of a new system used for monitoring vibrations on power plant components.

RYAN DANIEL (14-514-32)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Control System Technology
Control Systems Integrator
January 2005—November 2007

Verified by
Mike Wareing

Experience Summary
Full-Time
Engineering: 2 years, 10 months
Post EAC degree: 2 years, 10 months
Experience under licensed engineer:
None



DESCRIPTION

Designed, programmed, and installed control systems for industrial, food processing, water, and manufacturing clients. Managed the installation and startup of several projects. Interfaced regularly with clients for new designs, modifications, and troubleshooting. Troubleshot control systems, and determined solutions to remedy the problems. Developed as-built drawings of existing systems, control panel layouts, and schematics. Programmed PLCs and HMIs and wrote custom graphical and reporting software for data analysis and tracking.

RYAN DANIEL (14-514-32)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

DC Engineering
Idaho (United States)
Industrial Electrical & Control Systems
Department Lead
November 2007—March 2026

Verified by
Jonathan Allen Goranson
jon@dcengineering.net

Experience Summary
Full-Time
Engineering: 18 years, 4 months
Post EAC degree: 18 years, 4 months
Experience under licensed engineer: 18 years, 4 months



TASKS

Department head for the industrial electrical and instrumentation and controls department leading a group of about 35 personnel including engineers, designers, programmers, and control system integrators. Design electrical and control systems for several different industries including water/wastewater, mining, and manufacturing. Develop drawings including process and instrumentation diagrams, control network design, control schematics, and control panel layouts. Write proposals for new projects, and put together cost estimates for many of these projects. Manage the design phase of several projects, and provided construction administration and startup services on some of these projects. Write PLC and HMI programs to control a variety of systems using software from several manufacturers. Perform start-up work on projects including testing I/O and verifying the functionality of the systems to meet the design intent.



REPRESENTATIVE PROJECTS

Walmart M&V Study, Nationwide - Design Lead (2025-2026)

Nationwide measurement and verification study acquiring data to evaluate the effectiveness of prototype HVAC equipment. I served as the project manager and design lead for the project. I worked with the client to understand their critical success factors for the study, and helped architect the overall design to adequately capture and store the data with proper instrumentation, wireless network, and data storage.

Chobani WRRF Expansion, Twin Falls ID - Design Lead (2019-2024)

Large 5 year wastewater recovery and reuse upgrade project. The project included major improvements to the primary treatment including new EQ tanks and secondary treatment processes as well as a large scale tertiary treatment system to clean the wastewater for reuse. I collaborated with the process engineering lead to review and build upon the process flow diagrams to develop the control narrative. I specified the instrumentation and PLC hardware needed to facilitate the process. I evaluated the existing process control network alongside the owner's IT team and designed the new network for higher reliability. I reviewed all electrical and control drawings alongside the process drawings to verify the system would function as intended. I oversaw the control system integration effort that implemented the design and I created the functional verification testing documents used during commissioning.

U.S. Department of Defense Electrical Infrastructure Upgrade, Oahu, Hawaii - Utility Automation Lead (2014-2019)

Electrical infrastructure upgrade consisted of installing several new medium-voltage Main-Tie-Tie-Main switchgear and connection to diesel rotary uninterruptable power systems (DRUPS) and associated secondary unit substations. I led the utility automation design where I analyzed the protective relaying system and then designed the communication backbone to properly and safely allow the system to function as intended. I reviewed the sequence of operations from the DRUPS manufacturer and developed the overall system operation specification. I provided construction administration services onsite interfacing with the contractor and owner. I had to deeply review and evaluate all nuances of system operation to develop the commissioning test plan and served as the Commissioning lead for system startup/checkout.

Clif Bar Bakery, Twin Falls ID - Lead Control System Engineer (2014-2016)

Project included the design of a 300k+ sf greenfield bakery. I evaluated the owners' desired functionality of their facility to help design the overall control system architecture. I reviewed process equipment specifications and mechanical equipment cutsheets to develop P&IDs and sequence of operations documents for the new facility. I closely worked with the Owner's IT department as well as our internal IT department to design the network architecture to properly define the boundaries between the process control network and the corporate business network. I wrote equipment/machine specifications to help ensure the equipment purchased would integrate well into the overall facility control system.

Lightning Dock Geothermal Power Plant, Animas NM - Control Systems Engineer & Systems Integrator (2013-2015)

Project consisted of a 4MW greenfield geothermal power plant. I designed the P&IDs and overall sequence of operation and evaluated the control systems onboard the vendor provided generator skids. I reviewed the detailed control panel drawings our design team developed. I provided programming services and engineering and startup support services both on site and remotely.

Rock Creek Biogas Facility, Filer ID - Control Systems Engineer & Systems Integrator (2010-2012)

Project included a greenfield 3.2MW cogeneration facility at a dairy. The project included manure reception tanks, six anaerobic digesters, solids separation equipment, biogas piping and blowers, and two biogas generators producing methane to provide power to sell to the utility. I analyzed the process flow diagrams and created P&IDs with sequence of operations to automate the facility. I evaluated NFPA 820 and other area classification guides to design a safe system.

Scentsy Wax Storage and Distribution System, Meridian ID (2009-2012)

I provided the controls engineering for a new bulk wax storage and distribution system at Scentsy's manufacturing facility in Meridian, ID. I evaluated the layout of the facility and designed a PLC based system with two remote I/O panels communicating over Ethernet to the PLC. I investigated multiple instrumentation solutions due to the unique challenges of monitoring molten wax. The process was highly critical of temperature, which required me to carefully consider how to best program and test the system.

ADDITIONAL INFORMATION



TIME GAPS

Start Date	End Date	Explanation
March 2020	December 2021	

APPLICANT'S NAME Ryan Daniel

EXPERIENCE RECORD SUMMARY AND DESCRIPTION

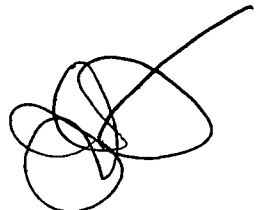
Name and Address of Employer at Time of Employment:

Puget Sound Naval Shipyard
1400 Farragut Avenue
#850
Bremerton, WA 98314
US

Dates of Employment: 06/2002 to 12/2004

Full-Time Employment

Worked with electricians, inspectors and other engineers repairing, modifying and refurbishing electrical and control systems associated with the nuclear power plants on submarines and aircraft carriers. Wrote technical work instructions to insure the work was done in accordance with the applicable Nuclear Power Manuals and other standards. Became the lead engineer on the installation of a new system used for monitoring vibrations on power plant components.

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke extending to the right.

APPLICANT'S NAME Ryan Daniel

EXPERIENCE RECORD SUMMARY AND DESCRIPTION

Name and Address of Employer at Time of Employment:

Control System Technology
1638 Romantica Dr
Idaho Falls, ID 83402
US

Dates of Employment: 01/2005 to 11/2007

Full-Time Employment

Designed, programmed, and installed control systems for industrial, food processing, water, and manufacturing clients. Managed the installation and startup of several projects. Interfaced regularly with clients for new designs, modifications, and troubleshooting. Troubleshot control systems, and determined solutions to remedy the problems. Developed as-built drawings of existing systems, control panel layouts, and schematics. Programmed PLCs and HMIs and wrote custom graphical and reporting software for data analysis and tracking.

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke extending to the right.



DC ENGINEERING

Careful listening. Dynamic solutions.

440 E. Corporate Dr., Suite 103,
Meridian, ID 83642
www.dceengineering.net

July 7, 2026

NV Board of Professional Engineers and Land Surveyors

ATTN: Licensing/Jasmine Bailey

1755 E Plumb Lane, Suite 258

Reno NV 89502

SUBJECT: Expanded Experience Document/Pending NV Application – RYAN DANIEL

Below is a summary of my electrical engineering experience.

Department Lead for the industrial electrical and instrumentation and controls (I&C) department leading a group of about 40 personnel including engineers, designers, programmers, and control system integrators. Design electrical and I&C systems for several different industries including water/wastewater, mining, and manufacturing. Design drawings including one-lines, plan drawings with conduit and cable schedules, motor control schematics, and panel schedules. Write proposals for new projects, and put together cost estimates for many of these projects. Manage the design phase of several projects, and provided construction administration and startup services on some of these projects. Perform start-up assistance on projects including testing the system and verifying the functionality of the systems to meet the design intent.

Walmart M&V Study, Nationwide - Design Lead (2025-2026)

Nationwide measurement and verification study acquiring data to evaluate the effectiveness of prototype HVAC equipment. I served as the project manager and design lead for the project. I worked with the client to understand their critical success factors for the study, and helped architect the overall design to adequately capture and store the data with proper instrumentation, power monitoring, wireless network, and data storage.

Chobani WRRF Expansion, Twin Falls ID - Design Lead (2019-2024)

Large 5 year wastewater recovery and reuse upgrade project. The project included major improvements to the primary treatment including new EQ tanks and secondary treatment processes as well as a large scale tertiary treatment system to clean the wastewater for reuse. I was our Design Lead for the project. I collaborated with the process engineering lead to understand the electrical requirements of all of the new equipment. I coordinated our electrical

design working with multiple electrical engineers and electrical designers. Attended design reviews with the client and other engineers and presented the electrical design with options and suggested solutions. I designed the UPS systems for the new facilities to maintain power to critical infrastructure. I specified the instrumentation and PLC hardware needed to facilitate the process. I evaluated the existing process control network alongside the owner's IT team and designed the new network for higher reliability. I reviewed all electrical and control drawings alongside the process drawings to verify the system would function as intended.

U.S. Department of Defense Electrical Infrastructure Upgrade, Oahu, Hawaii - Utility Automation Lead (2014-2019)

Electrical infrastructure upgrade consisted of installing several new medium-voltage Main-Tie-Tie-Main switchgear and connection to diesel rotary uninterruptable power systems (DRUPS) and associated secondary unit substations. I led the utility automation design where I analyzed the protective relaying system and then designed the communication backbone to properly and safely allow the system to function as intended. I reviewed the sequence of operations from the DRUPS manufacturer and developed the overall system operation specification. I provided construction administration services onsite interfacing with the contractor and owner. I had to deeply review and evaluate all nuances of system operation to develop the commissioning test plan and served as the Commissioning lead for system startup/checkout.

Lightning Dock Geothermal Power Plant, Animas NM - Engineer & Systems Integrator (2013-2015)

Project consisted of a 4MW greenfield geothermal power plant. I was involved with scoping the project and implementing the design. Met with the owner to understand their critical success factors and used this information during the design phase to help engineer a robust system that would provide the needed functionality. I reviewed the vendor provided generator skids and helped determine how they would be tied into the overall electrical and control system. I provided programming services and engineering and startup support services both on site and remotely.

Rock Creek Biogas Facility, Filer ID - Engineer & Systems Integrator (2010-2012)

Project included a greenfield 3.2MW cogeneration facility at a dairy. The project included manure reception tanks, six anaerobic digesters, solids separation equipment, biogas piping and blowers, and two biogas generators producing methane to provide power to sell to the utility. The project was Design Build so met with the contractor and owner and helped coordinate between the process engineering team by understanding the critical electrical and control needs of the various skid equipment. Helped provide a classified area analysis to properly design the electrical and control systems using NFPA 820 and other area classification guides.

Please contact me directly with any additional questions or concerns. Thank you in advance for your time and I look forward to hearing from you soon.

Respectfully submitted,

Ryan P Daniel, P.E.
DC Engineering, Inc.
440 E Corporate Drive, Suite 103
Meridian ID 83642
(208) 288-2181

JONATHAN RUVALCABA (16-364-81)

All work experience reviewed by two licensed professionals

DISCIPLINE: ELECTRICAL

GENERAL



Applying To
Nevada

Application Type
Comity - PE

Application Date
03/03/2020

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
9 years, 9 months

Total Engineering Experience
10 years, 9 months

Experience under licensed engineer
5 years

Disciplinary Action
None reported



EDUCATION



Associates in Pre-Engineering
College of Southern Nevada
January 2011–May 2014

Bachelors in Mechanical Engineering (EAC)
University of Nevada, Las Vegas
August 2013–May 2016

Masters in Business Administration
University of Nevada, Las Vegas
August 2018–May 2020



NOTE: First discipline specific EE license, he is licensed as a ME in Nevada.

EXAMS



Fundamentals of Engineering (FE)
Nevada
April 2016

Principles and Practice of Engineering (PE)
Mechanical
Nevada
April 2017

Principles and Practice of Engineering (PE)
Electrical & Computer
Nevada
January 2026

LICENSES



Initial License
Nevada
Issued: July 2020
Expires: December 2027

Additional Licenses
None

JONATHAN RUVALCABA (16-364-81)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

NV Energy
Nevada (United States)
Intern - Engineering & IT, Distribution
Planning
June 2014—June 2015

Verified by
Mark L. Skrable
MSkrable@nvenergy.com

Experience Summary
Full-Time
Engineering: 1 year
Experience under licensed engineer:
1 year



TASKS

As an intern in Distribution Planning, my main responsibility was to support the engineers in the department. I worked with a team of multi-disciplined(civil, electrical, mechanical) engineers and provided engineering support to ensure reliability, availability, efficiency, and functionality of all network feeders and planning processes. I assisted in basic engineering tasks of design, evaluation, problem solving, analysis, and planning to support power distribution. I used design and database tools to provide job aids and functional tools that all the engineers would use.



REPRESENTATIVE PROJECTS

One of the major projects I was involved in, gathered and organized incongruous data from sensors, physical readings, and NV Energy's supervisory control and data acquisition system for over 200 power feeders. This data had to be harmonized in a way that the department engineers could effectively forecast load while providing a State of the System to the rest of the company. My main task was to filter this information and organize it using various software tools, mainly excel, for the planning engineers to utilize. Various macros were developed to pull and organize the information. I also had to ensure the quality of the data was precise by cross referencing it on multiple systems.

The distribution capacitor bank project spanned the length of my internship and involved coordination with staff and bargaining unit linemen to troubleshoot and restore failed capacitor banks on schedule and under budget. I was tasked with prioritizing and fixing failed capacitor banks based on demanded kVAR support. As units were checked in the field, I was diagnosing capacitor bank controllers in a shop setting to refurbish them using software and hardware solutions. I helped establish a troubleshooting methodology and analyzed field reports as they came in to issue appropriate work orders that would restore the banks accordingly.

JONATHAN RUVALCABA (16-364-81)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

NV Energy
Nevada (United States)
Engineer II - T&D Standards
June 2016—June 2020

Verified by
Dave Van Allaway
dallaway@nvernergy.com

Experience Summary
Full-Time
Engineering: 4 years
Post EAC degree: 4 years
Experience under licensed engineer: 4 years



TASKS

I held three titles during my time in Transmission and Distribution Standards. I was Intern – Engineering & IT for one year from 06/2015-05/2016, Standards Engineer I from 06/2016-07/2018, and Standards Engineer II from 05/2018-present. Though my individual project responsibilities evolved over this career progression, my task and duties were very similar throughout. I was responsible for the production and maintenance of design, material, and construction standards and processes. These processes were focused on transmission and distribution installations. This task required me to work closely with internal and external customers to continuously improve designs, identify cost savings, maintain a safe working environment, and ensure best practices were followed for the installation of reliable facilities. To effectively develop these standards, I had to be familiar with various entity codes and regulations such as NDOT, RTC, NEC, NESC, OHSA, and more. I was also tasked with evaluating new materials for compliance with technical specifications that I established or maintained. This required familiarity with various working groups such as IEEE, ASTM, ICEA, ANSI, SAE etc. Part of this responsibility included consistent quality assurance to address non-conformance before material or equipment reached the field. When a failure event did occur in the field, I was responsible with reviewing these events and identifying root causes. Lastly, as Engineer II, I became chair of our Southern Nevada Distribution Standards Committee where we introduced new standards, proposed revisions, introduced new material and reviewed equipment issues. This committee was composed of multi-disciplined engineers, construction linemen, supervisors, managers, and directors.



REPRESENTATIVE PROJECTS

Two pole-related projects I was responsible for had to do with new materials, ductile iron and Coastal Douglas Fir poles. For years, NV Energy used Western Red Cedar, but as we harmonized material with our sister companies, MidAmerican and Pacificorp, we began using Coastal Douglas Fir to decrease cost. As a result, extreme acclimation was experienced in the desert of Las Vegas and the poles shrunk and twisted to unsafe conditions. A colleague and I were responsible with finding a solution. I designed a testing regime to find the rate of acclimation along with the critical moisture content at which the poles would dry to. My colleague procured the moisture meter, we both tested and recorded the data over several months, and I wrote the final test procedure. Using statistical analysis, I determined how many poles to test for this procedure to reach 95% certainty that a high moisture batch would need to be seasoned. I established the seasoning period with the moisture data, implemented the procedure with the material handlers and as a result, we have not had this type of issue with our inventory since. This is an example of the challenges encountered.

The second pole project had to do with an alternate material to wood. My colleague, our Transmission Engineering team, and I collaborated to find alternatives for wood poles to be used in the fire prone areas of Northern Nevada. Ductile Iron was chosen due to its non-combustible nature, high yield strength, cost, and installation practically. Three pilot projects were used to identify the proper installation and design practices. I collected and documented the pilot feedback to use as justification for the new material and to develop pragmatic installation guidelines. I was responsible for reviewing and implementing the new material specification and new inventory for both transmission and distribution applications. This required proficiency with ASTM A536, ASTM D149, AWWA C151, ANSI 05.1, and NESC codes. I then worked with our design teams to choose the various pole sizes we would add to inventory and implement the necessary compatible units into our design software. I was the technical lead for the procurement process. Finally, I was responsible for creating an application guide that highlighted all the mechanical and electrical characteristics of the pole while providing installation guidelines to be used in the field. This is an example of new material introductions I was tasked with.

For many years, utilities in Southern Nevada have worked towards putting gas and electric runs in a joint trench for cost effectiveness. The gas entity made progress towards this in 2018 when they began a change management process. My responsibility for this project was to provide engineering support to our leadership as they navigated this complex and sensitive effort. I was tasked with performing an impact study, evaluating design changes, and creating the installation assemblies necessary to drive this forward. I led the internal engineering change effort that included creating new assemblies that ensured the

safety of our linemen, specifying and piloting the new material to be used in this transition, identifying the design changes necessary for effective implementation, and disseminating the proposed changes to various committees for review. Afterwards, I acted as our engineering liaison when this new practice was presented to the Southern Nevada Homebuilders Association for comment. This project is ongoing. This is exemplar of the major design changes I was responsible for.

Another day-to-day responsibility I held was reviewing drawings for various pieces of equipment. While the most common were medium voltage transformers, I was also tasked with reviewing overhead and underground switchgear, cable, conductor, poles, arresters, and capacitor banks. This process required me to uphold our company-specific requirements, but more importantly, ensure that all industry standards were being met. Pad-mounted transformers, for example, were reviewed for manufacturing specifications that met IEEE C57.12.38, oil and cooling methods that conformed to C57.12.00, heat run test procedures that conformed to C57.12.90, and enclosure specifications that met C57.12.28. I reviewed submitted drawings to ensure we would receive high-quality equipment. If something was missing, I worked closely with the manufacturer to bring the specific units up to standard. This is an example of the quality assurance procedures I was responsible for.

WORK EXPERIENCE

ExxonMobil
Texas (United States)
Planning & Stewardship Lead
August 2020 – August 2024

Verified by
Schadrick Collins
schadrickcollins@gmail.com

Experience Summary
Full-Time
Engineering: 4 years
Post EAC degree: 4 years
Experience under licensed engineer:
None

TASKS

As an Auditor for industrial plants, I was responsible for conducting in-depth technical evaluations of complex facility operations. This included detailed Process and Instrumentation Diagram (P&ID) reviews at gas and chemical plants to identify process control and optimization opportunities. I specialized in the engineering measurement space, where I audited emission reporting practices and leveraged my findings to establish corporate-wide best practices through the Measurement Center of Excellence.

In my capacity as a Research Projects Advisor, my duties required a deep technical understanding of the lab work and engineering studies necessary to support major capital programs. I was tasked with stewarding the research portfolio, which involved assessing the technical feasibility and operational structure of various R&D initiatives to ensure they aligned with the company's strategic engineering objectives and long-term technological roadmap.

As the Planning and Stewardship Lead for ExxonMobil's central research organizations, I directed the strategic allocation of resources for an 8,000-person technical organization. This role required a comprehensive understanding of the company's engineering capabilities to effectively structure project budgets and program funding. I was responsible for creating forecasting models for a \$4B opex budget and training over 200 engineers, PhDs, and scientists in corporate planning execution, directly linking technical resource capacity to financial planning.

REPRESENTATIVE PROJECTS

Pertinent projects in these roles include:

Project 1: Upstream Asset Measurement Practices Audit & Validation

Project Scope and Location: This project involved a comprehensive technical audit of measurement, control, and data transmission systems across multiple gas plants and oil rigs throughout the Permian Basin, centered in Carlsbad, New Mexico. The objective was to verify measurement accuracy and data integrity across the upstream value chain before financial transactions occurred.

Dates: April 2021 – June 2021

My Role: I personally performed physical, on-site evaluations of various flow meters, calibration equipment, and maintenance systems at multiple gas and oil facilities. I analyzed Process and Instrumentation Diagrams (P&IDs) to trace hydrocarbon flows, performed engineering validations on raw metering data, and mapped the data-manipulation pathway from the physical meter to final reporting to identify and resolve process discrepancies.

Project 2: Global Emissions Reporting & Carbon Technology Evaluation

Project Scope and Location: This international project evaluated vertically and horizontally integrated emissions reporting processes and carbon technologies across ExxonMobil's global value chains, requiring extensive field evaluations in Europe and the Asia-Pacific region. The scope combined technical system assessments with compliance evaluations against complex regional environmental regulations.

Dates: May 2022 – July 2022

My Role: I evaluated the technical systems used to monitor, capture, and report emissions across diverse international facilities, ensuring physical reporting aligned with localized regulatory requirements. I analyzed localized engineering and compliance data, performed system-wide process reviews of carbon tracking mechanisms, and synthesized these findings into a unified technical risk assessment for senior leadership.

Project 3: Technology & Engineering Resource & Capability Model

Project Scope and Location: Located in Spring, TX, this project involved designing and developing a highly complex forecasting and recovery model to map the organizational capabilities, programs, and budgets for an 8,000-person technical and engineering organization. The system reconciled complex cost-accounting structures with real-world engineering project resource requirements.

Dates: August 2023 – August 2024

My Role: I engineered the logical data pipeline and data manipulation framework that integrated data across AWS, Snowflake, and Excel, and designed the final Power BI dashboard. I mathematically modeled the complex cost-recovery and accounting structures to directly link engineering capability requirements and project-level program budgets to multi-billion-dollar corporate resource forecasts.

WORK EXPERIENCE

Mission Support & Test Services LLC
Nevada (United States)
Engineering Manager
September 2024—June 2026

Verified by
Dimitry Nicholas Molodyko
MolodyDN@nv.doe.gov

Experience Summary
Full-Time
Engineering: 1 year, 9 months
Post EAC degree: 1 year, 9 months
Experience under licensed engineer:
None



TASKS

Senior Engineer (Power Engineering): Responsible for executing the technical design criteria for new power projects, providing engineering support during construction, and performing power quality analyses. I directly supported the site's preventative maintenance program to ensure system reliability and electrical safety.

Manager of Power Engineering: Responsible for leading a team of engineers in designing power distribution tasks, implementing system control and protection schemes, and identifying network improvements. I oversee engineering support for large capital projects, manage the site preventative maintenance program, and direct technical resolution for all operational power needs.



REPRESENTATIVE PROJECTS

Project 1: Power System Preventative Maintenance (PM) Program Overhaul
Project Scope and Location: This initiative involved a full-scale rebuild of the power system preventative maintenance program at the site facility in Mercury, NV. The scope required aligning operational workflows with InterNational Electrical Testing Association (NETA) and National Fire Protection Association (NFPA) industry standards to ensure long-term equipment reliability.
Dates: February 2025–August 2025
My Role: I conducted a comprehensive engineering audit of all facility assets and mapped them against NETA and NFPA requirements to define new maintenance intervals. I designed updated job plans within the Maximo system and calculated the necessary testing parameters for new equipment, subsequently training the testing team on these updated technical protocols.

Project 2: Power Engineering Organizational Development
Project Scope and Location: This project involved establishing a formal Power Engineering department at the site Mercury, NV, to support ongoing operations. The scope encompassed defining departmental capabilities, staffing requirements, and technical processes to ensure compliance with company policies and electrical industry codes.
Dates: June 2025–Present
My Role: I designed the organizational structure and long-term staffing plan based on current and future power-delivery requirements. I calculated projected engineering workloads to ensure sufficient support for Power Operations and authored the technical processes required to maintain compliance with institutional safety and electrical standards.

GAGANDEEP SINGH (14-796-57)

All work experience reviewed by two licensed professionals

DISCIPLINE: ELECTRICAL

GENERAL



Applying To
Nevada

Application Type
Comity - PE

Application Date
07/01/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
12 years

Total Engineering Experience
12 years

Experience under licensed engineer
12 years

Disciplinary Action
None reported



EDUCATION



Bachelors in Mechanical Engineering (EAC)
New York Institute of Technology, Old Westbury
September 2010–May 2014

EXAMS



Principles and Practice of Engineering (PE)
Mechanical
California
April 2017

Fundamentals of Engineering (FE)
New York
April 2014

Principles and Practice of Engineering (PE)
Electrical & Computer
California
February 2025

NOTE: First discipline specific EE license.

LICENSES



Initial License
California
Issued: June 2017
Expires: September 2027

Additional Licenses
None

WORK EXPERIENCE

Thomas Veltre, P.E., P.C.
New York (United States)
Mechanical/Electrical Engineer
June 2014—June 2019

Verified by
Stephen Veltre
sveltre@tomvpe.com

Experience Summary
Full-Time
Engineering: 5 years
Post EAC degree: 5 years
Experience under licensed engineer: 5 years



TASKS

During my time at Veltre engineering my position was an electrical engineer. My primary roles consisted of designing electrical building systems for primarily office buildings in NYC. My day to day tasks revolved around:

- 1) NFPA 70 & NFPA 72 code review
- 2) NYC Building Code Review Analysis
- 3) Voltage Drop Calculations
- 4) Short Circuit Calculations
- 5) Electrical Load Analysis
- 6) Electrical Utility Coordination
- 7) Lighting Control Systems
- 8) Energy code design



REPRESENTATIVE PROJECTS

40 Wall Street Floors 7th thru 56th (Various office fitouts) - Lead electrical engineer

The building consisted of 59 stories of class A NYC office space. At Veltre engineering we were the buildings MEP engineers. During my employment we worked every floor from 7 thru 59. My role was tasked to design code compliant electrical drawings for construction. See below various tasks that were directly performed by me.

- 1) I surveyed existing electrical infrastructure and review any NEC code deficiency requiring correction.
- 2) I designed electrical power distribution for offices, conferences rooms, and commercial kitchens.
- 3) I performed voltage drop calculations for the electrical distribution.
- 4) I designed the lighting controls to adhere to the NYC Energy Conservation Code.

Trump Hotel 1 Central Park West - Lead electrical engineer

The hotel performed a major overhaul of the central cooling system. I was tasked to perform the calculations and studies listed below to correct electrician code violations.

- 1) I performed preliminary short circuit calculations to properly rate the new electrical equipment.
- 2) I performed coordination study to confirm the protection of all OCPD are set at the correct values.
- 3) I performed arc flash calculation to properly rate the protection required for the new electrical equipment.
- 4) I performed site visits to rectify incorrect installation methods by the electrical contractors.

Jaguar, Nissan, Landrover Dealership - Lead electrical engineer

The dealership listed above was apart of a complete building overall. This consisted of all new electrical service equipment, electrical distribution equipment, electrical branch circuitry, fire alarm systems, lighting controls

- 1) I designed a new electrical service design for 250,000 SF automobile repair/dealership with new 460/265V Con-Ed spot network & all new downstream electrical distribution.
- 2) I designed branch circuitry for all lighting, emergency lighting, receptacles, mechanical equipment, and automobile equipment per the NEC.
- 3) I designed of a new class "E" fire alarm system for the required occupancy per NFPA 72.

WORK EXPERIENCE

AMA Group
New York (United States)
Senior Associate Electrical Engineer
June 2019—September 2023

Verified by
Dagmawi Geneme Hailemariam
DagHailemariam@gmail.com

Experience Summary
Full-Time
Engineering: 4 years, 3 months
Post EAC degree: 4 years, 3 months
Experience under licensed engineer:
4 years, 3 months



TASKS

During my employment at AMA I worked on a large variety of projects ranging from office fit-outs to full ground up building designs. I was tasked as the lead electrical engineer on all projects I worked on while at AMA. My responsibilities included:

- 1) Review scope with clients to understand the requirements of the project.
- 2) Manage design progression with issuance deadlines.
- 3) Review project budget with hours of labor spent on projects.
- 4) Design electrical distribution and service equipment per local AHJ requirements and the NEC.
- 5) Design fire alarm systems per local AHJ requirements and the NEC.
- 6) Manage a group of junior engineer and review electrical designs from them.



REPRESENTATIVE PROJECTS

Project Silver Douglasville, Georgia

Project Silver was a new development that consisted of ten new buildings on a 39 acre lot. The scope consisted of all new MEP design for all services of which I was the lead electrical engineer. My role/responsibilities consisted of:

- 1) I presented the overall electrical distribution strategy to the client for approval. This consisted of evaluating if a radial or loop network system was appropriate. Due to the critical nature of the project a loop service configuration was selected.
- 2) I initiated individual electrical load analysis for each building for coordination with the local utility company.
- 2) I designed the electrical services for each of the building ranging from 300kVA to 2500kVA 480/277V pad mounted transformers and interior switchboards.
- 3) I designed all electrical distribution within each of the buildings in accordance with the NEC.
- 4) I designed all branch circuitry wiring from panelboards to end devices such as receptacles, lighting, HVAC equipment, specialty equipment, commercial kitchen equipment.
- 5) I performed full short circuit analysis for each buildings electrical system to properly rate the electrical equipment.
- 6) I performed voltage drop calculations on all electrical feeders throughout the campus.

2 Penn Plaza New York, NY

2 Penn Plaza was an existing building that underwent a full core and shell renovation and expansion totaling 1.6 million sq ft. The scope consisted of all new MEP design for all services of which I was the lead electrical engineer. My role/responsibilities consisted of:

- 1) I coordinated with the local utility company to upgrade (8) 4000A 460/265V transformer and associated spot network equipment.
- 2) I designed all new electrical service equipment and distribution equipment to serve the base building as well as 32 floors of future office tenants.
- 3) I surveyed and recorded electrical code violation with the existing infrastructure and provided a remediation plan to conform to the NEC.
- 4) I designed the electrical distribution for (4) new 1200 ton electrical chillers.
- 5) I perform a complete short circuit analysis for the new electrical distribution system. This included (8) 4000A switchboards, (24) 2000A distribution boards, (38) 1200 distribution boards, (104) 200A Panelboards.
- 6) I designed the electrical circuitry for 100 new perimeter fan coil units for 32 floors.
- 7) I designed the electrical system for a new 42,500SF exterior television display.

8) I designed the electrical system for a new theatrical auditorium.

9) I designed the electrical distribution for (1) 2500kVA emergency life safety generator + (1) 2500kVAC tenant optional standby generator. This included the design for 2hr rated electrical wiring, transfer switches, and separation per the NEC and local building codes.

WORK EXPERIENCE

STV Inc
New York (United States)
Electrical Engineer
September 2023—September 2024

Verified by
John Sebastian Jison
john.jison@stvinc.com

Experience Summary
Full-Time
Engineering: 1 year
Post EAC degree: 1 year
Experience under licensed engineer:
4 months



TASKS

During my employment at STV, I performed the duties of a lead electrical engineer on transportation oriented projects. My responsibilities included:

- 1) Review scope with clients to understand the requirements of the project.
- 2) Manage design progression with issuance deadlines.
- 3) Review agency design criteria and implement into the design
- 3) Review project budget with hours of labor spent on projects.
- 4) Design electrical distribution and service equipment per local AHJ requirements and the NEC.
- 5) Design fire alarm systems per local AHJ requirements and the NEC.
- 6) Manage a group of junior engineer and review electrical designs from them.



REPRESENTATIVE PROJECTS

NYC/NJ Gateway Tunnel Project (From 30% design to 75% design)

The gateway tunnel project is a new underground 2.5mile rail transit tunnel from NYC to NJ. It will be primarily used by Amtrak and NJ transit.

My role and responsibility was the lead electrical engineer for the 12th avenue fan plant + electrical design for the tunnelway. The scope consisted of:

- 1) I designed the electrical distribution for the 12th avenue fan plant. This consisted of a new 2000A 480/277V electrical service and all distribution equipment and branch circuitry to end devices.
- 2) I designed the tunnel lighting design for the entire 2.5mile tunnel segment and performed photometric calculation to support design compliance.
- 3) I designed a client directed 480V system that ran the entire length of the tunnel segments. This consisted of (15) cross passages that contained mechanical equipment, Telcom, and emergency radio systems.
- 4) I performed/created calculation reports for short circuit, voltage drop for the entire system under my scope.
- 5) I designed a medium voltage emergency generator for the 12th ave fan plant and all associated EPSS equipment.
- 6) I reviewed and confirmed compliance with the NEC & NFPA 130

MART O&M Bus Depot

The O&M bus depot was a new 31 acre bus facility constructed to support the Atlanta public bus system. My role and responsibility was the lead electrical engineer for (6) new buildings + MV bus charging station. The scope consisted of:

- 1) I designed the full electrical system from the utility transformers down to the end user devices for the following building:
Bus maintenance 2000kVA 480/277V Service
Police precinct 3kVA 480/277V Service
Diesel fueling building 300kVA 480/277V Service
Bus wash 750kVA 480/277V Service
CNG compressor building 2000kVA 480/277V Service
Industrial wastewater building 300kVA 480/277V Service
MV bus charging station 2MW 25kV Service
The design consisted of new switchboards, electrical distribution panels, branch circuit panels, branch circuit wiring to end

devices.

2) I performed/created calculation reports for short circuit, voltage drop, and conduit fill for the entire system under my scope. Calculation report were used to verify conformance to the NEC.

WORK EXPERIENCE

STV Inc
New York (United States)
Electrical Engineer
September 2023—September 2024

Verified by
Naveen Richard Thacker
n4thacker@gmail.com

Experience Summary
Full-Time
Engineering: 1 year
Post EAC degree: 1 year
Experience under licensed engineer: 1 year



TASKS

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CNG compressor building 2000kVA 480/277V Service
Industrial wastewater building 300kVA 480/277V Service
MV bus charging station 2MW 25kV Service
The design consisted of new switchboards, electrical distribution panels, branch circuit panels, branch circuit wiring to end

devices.

2) I performed/created calculation reports for short circuit, voltage drop, and conduit fill for the entire system under my scope. Calculation report were used to verify conformance to the NEC.

WORK EXPERIENCE

STV Inc
New York (United States)
Electrical Engineer
September 2023—September 2024

Verified by
Scott Michael Curtis
scott.curtis@stvinc.com

Experience Summary
Full-Time
Engineering: 1 year
Post EAC degree: 1 year
Experience under licensed engineer: 1 year



TASKS

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Police precinct 3kVA 480/277V Service

Diesel fueling building 300kVA 480/277V Service

Bus wash 750kVA 480/277V Service

CNG compressor building 2000kVA 480/277V Service

Industrial wastewater building 300kVA 480/277V Service

MV bus charging station 2MW 25kV Service

The design consisted of new switchboards, electrical distribution panels, branch circuit panels, branch circuit wiring to end

devices.

2) I performed/created calculation reports for short circuit, voltage drop, and conduit fill for the entire system under my scope. Calculation report were used to verify conformance to the NEC.

WORK EXPERIENCE

Parsons Corp
New York (United States)
Supervising Electrical Engineer
September 2024—May 2026

Verified by
Brian Thomas Carroll
brian.carroll@parsons.com

Experience Summary
Full-Time
Engineering: 1 year, 8 months
Post EAC degree: 1 year, 8 months
Experience under licensed engineer:
1 year, 8 months



TASKS

I am currently employed as an electrical supervising engineer for Parsons' New York City office, providing design and consulting services for all types of facility electrical systems. My current responsibility is to serve as the lead engineer for (3) new rail station + 3miles of elevated guideway. I serve as the lead engineer for one of the stations while managing a group of (4) engineers for the remainder of the scope. My duties are to ensure the design drawings comply with all applicable codes (NEC, Building Code, Agency Requirements, etc)



REPRESENTATIVE PROJECTS

HART Honolulu City Center Guideway Elevated Guideway (CCGS)

CCGS is the design and construction of an elevated guideway and elevated stations during the fourth and largest phase of the light rail system in Honolulu, including six rail stations and 3.1 miles of elevated rail guideway beginning just east of the Middle Street Transit Center Station and ending at the Civic Center Station to be located just east of the Halekauwila Street/South Street Intersection.

My task and duties:

- 1) I coordinated with the local utility company and produce drawings that conform to their standards.
- 2) I produced load calculations for Chinatown station to appropriately design the full electrical system.
- 3) I developed all the electrical scope downstream of the pad mounted utility transformer to the end branch circuit devices.
- 4) The electrical design included a 800A main distribution board. Manual transfer switch for a rollup generator connection.
- 5) I produced voltage drop calculations for all feeders and branch circuits.
- 6) I produced short circuit calculations for all distribution equipment from the main distribution board to branch circuit panelboards.
- 7) I produced conduit fill calculation to verify the design is in compliance with the NEC.
- 8) I produced conduit plans for all conduits 2" and larger and confirmed compliance with the NEC Article Series 300.
- 9) I reviewed the seismic design impacts for Hawaii and appropriately designed the electrical infrastructure to comply with ASME
- 10) I actively reviews the design development for an additional (2) stations led by junior engineers to confirm it complies with all applicable codes.

WORK EXPERIENCE

Parsons Corp
New York (United States)
Supervising Engineer
September 2024—June 2026

Verified by
Michael Anthony McDonald
Mike.Mcdonald@parsons.com

Experience Summary
Full-Time
Engineering: 1 year, 9 months
Post EAC degree: 1 year, 9 months
Experience under licensed engineer:
1 year, 9 months



TASKS

I am currently employed as an electrical supervising engineer for Parsons' New York City office, providing design and consulting services for all types of facility electrical systems. My current responsibility is to serve as the lead engineer for (3) new rail station + 3miles of elevated guideway. I serve as the lead engineer for one of the stations while managing a group of (4) engineers for the remainder of the scope. My duties are to ensure the design drawings comply with all applicable codes (NEC, Building Code, Agency Requirements, etc)



REPRESENTATIVE PROJECTS

HART Honolulu City Center Guideway Elevated Guideway (CCGS)

CCGS is the design and construction of an elevated guideway and elevated stations during the fourth and largest phase of the light rail system in Honolulu, including six rail stations and 3.1 miles of elevated rail guideway beginning just east of the Middle Street Transit Center Station and ending at the Civic Center Station to be located just east of the Halekauwila Street/South Street Intersection.

My task and duties:

- 1) I coordinated with the local utility company and produce drawings that conform to their standards.
- 2) I produced load calculations for Chinatown/Kapalama/Iwilei stations to appropriately design the full electrical system.
- 3) I developed all the electrical scope downstream of the pad mounted utility transformer to the end branch circuit devices.
- 4) The electrical design included a 800A main distribution board. Manual transfer switch for a rollup generator connection.
- 5) I produced voltage drop calculations for all feeders and branch circuits.
- 6) I produced short circuit calculations for all distribution equipment from the main distribution board to branch circuit panelboards.
- 7) I produced conduit fill calculation to verify the design is in compliance with the NEC.
- 8) I produced conduit plans for all conduits 2" and larger and confirmed compliance with the NEC Article Series 300.
- 9) I reviewed the seismic design impacts for Hawaii and designed the electrical infrastructure to comply with ASME 7 guidelines.
- 10) I actively reviewed the design development for an additional (2) stations led by junior engineers to confirm it complies with all applicable codes.

Fire Protection

MOHAMMED AZHAR SHAIKH (24-066-53)

All work experience reviewed by two licensed professionals

DISCIPLINE: FIRE PROTECTION

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/18/2026

Citizenship
India

SUMMARY



Engineering Experience after EAC degree

Total Engineering Experience
16 years, 4 months

Experience under licensed engineer
3 years, 9 months

Disciplinary Action
None reported



EDUCATION



Meets NCEES Engineering Education Standard

Bachelors in Mechanical Engineering
Visvesvaraya Technological University
August 2005–August 2009

EXAMS



Fundamentals of Engineering (FE)
SCE
August 2025

Principles and Practice of Engineering (PE)
Fire Protection
SCE
April 2026



LICENSES



Additional Licenses
None

WORK EXPERIENCE

HEBA FIRE & SAFETY EQUIP CO.
LTD
Eastern Province (Saudi Arabia)
Senior Design Engineer
January 2010—August 2022

Verified by
Taqaddus Hussain Abdulgani
Savanur
taqaddus.hussain@outlook.com

Experience Summary
Full-Time
Engineering: 12 years, 7 months
Experience under licensed engineer:
None



TASKS

As a Senior Design Engineer at Heba Fire & Safety, I was responsible for the design, engineering development, and technical support of fire protection and fire alarm systems for various projects. My primary role focused on producing engineering deliverables and providing site-based technical assistance during the construction phase to ensure full compliance with project requirements and applicable NFPA standards.

My key responsibilities included preparing fire protection and fire alarm system shop drawings, as well as reviewing and verifying conceptual and detailed design drawings. This involved coordinating with architectural, structural, and MEP disciplines to ensure proper integration of fire safety systems within the overall building design. I also guided and supervised CAD engineers and drafting teams to ensure accuracy, quality, and timely completion of deliverables in accordance with project specifications.

In addition, I actively participated in testing, commissioning, and system validation activities for fire protection systems, including sprinkler systems, deluge systems, and fire alarm systems. I supported site inspections and ensured that installation and commissioning activities were carried out in compliance with approved design documents and applicable codes.

Beyond engineering duties, I was also involved in coordination with internal departments and the project management team to ensure timely procurement, material delivery, and smooth project execution at site. This included assisting in project planning and resolving technical and logistical issues during construction.

Overall, my responsibilities were approximately 85% engineering-related, including design, coordination, and commissioning activities, and 15% non-engineering duties, primarily focused on project coordination, scheduling, and material delivery support.



REPRESENTATIVE PROJECTS

Project 1: SABIC–SAFCO, IBN SINA 230kV Substation

Location: Jubail, Saudi Arabia | Year: 2012–2013

I designed fire protection systems for the 230kV substation including transformer deluge systems per NFPA 15, Novec-1230 clean agent systems per NFPA 2001, and fire alarm systems per NFPA 72. I performed hydraulic calculations using ELITE software, battery sizing, voltage drop calculations, equipment selection, and preparation of shop drawings. I coordinated with multidisciplinary teams and ensured compliance with SABIC and HCIS standards.

Project 2: SABIC–SAFCO Compressor/Lube Oil Deluge System

Location: Jubail, Saudi Arabia | Year: 2013–2014

I designed deluge fire protection systems for compressor and lube oil areas in accordance with NFPA 15. I performed nozzle layout, zoning, hydraulic calculations, and pipe sizing to ensure adequate hazard protection. I also selected deluge valves and coordinated with process engineers during system development.

Project 3: SEC 380kV Adel Substation

Location: Saudi Arabia | Year: 2015–2016

I performed design and estimation of fire protection systems including clean agent systems per NFPA 2001, hydrant systems per NFPA 14, and fire alarm systems per NFPA 72. I prepared BOQs, material take-offs, and cost estimates, and coordinated system

integration with electrical and mechanical disciplines.

Project 4: SEC 380kV Dammam Housing Substation

Location: Dammam, Saudi Arabia | Year: 2016–2017

I designed and estimated clean agent, hydrant, sprinkler, and fire alarm systems for the substation facilities. I performed sprinkler system design per NFPA 13, battery sizing, and voltage drop calculations per NFPA 72. I also prepared BOQs and coordinated multidisciplinary engineering activities.

Project 5: Saudi Aramco Bulk Storage Tank Foam System

Location: Dhahran, Saudi Arabia | Year: 2011

I designed foam fire suppression systems for bulk storage tanks in accordance with NFPA 11 and Saudi Aramco standards. I performed foam demand calculations, concentrate storage sizing, and discharge duration analysis. I also designed foam chambers and coordinated fire protection layouts with tank farm systems.

Project 6: Cristal Pigment Plant

Location: Yanbu, Saudi Arabia | Year: 2016–2017

I designed fire alarm systems per NFPA 72, FM-200 systems per NFPA 2001, and sprinkler systems per NFPA 13 for the chemical plant facilities. I performed hydraulic calculations, equipment sizing, and coordinated with process teams for hazard classification and system integration.

Project 7: Shuqaiq Water Desalination Project

Location: Shuqaiq, Saudi Arabia | Year: 2020–2021

I designed fire protection systems for pumping stations including hydrant networks, FM-200 systems, and sprinkler systems in accordance with NFPA standards. I performed hydraulic calculations, pipe sizing, and preparation of fire protection design drawings while coordinating with other engineering disciplines.

Project 8: SWCC Yanbu Phase-2 Desalination Plant

Location: Yanbu, Saudi Arabia | Year: 2013

I was involved in the estimation of fire alarm systems per NFPA 72. I prepared material take-offs, quantified system components, developed cost estimates, and supported technical coordination to ensure compliance with SWCC standards.

Additional Engineering Responsibilities

I provided technical support during installation, testing, and commissioning activities for multiple fire protection projects. I resolved field engineering issues, supported system testing, verified hydraulic performance, and ensured compliance with approved designs, NFPA codes, and client standards.

WORK EXPERIENCE

Aman Fire Engineering Consultant
Mecca (Saudi Arabia)
Senior Fire Protection Engineer
August 2022 – May 2026

Verified by
Hafiz Muhammad Uzair Barry
m.barry@amanfec.com

Experience Summary
Full-Time
Engineering: 3 years, 9 months
Experience under licensed engineer:
3 years, 9 months

TASKS

I am employed as a Senior Fire Protection Engineer, responsible for the design, review, site inspection, and testing & commissioning of fire protection and fire alarm systems for multiple projects. My engineering duties include reviewing layouts for hydrant, sprinkler, clean agent, foam, deluge, and fire alarm and detection systems to ensure compliance with applicable NFPA standards and project specifications.

I participate in Front-End Engineering Design (FEED) activities, including development of design basis reports, fire protection philosophies, and preliminary engineering inputs. I coordinate with engineers and draftsmen for the preparation of FEED drawings and technical reports. I also review and prepare detailed engineering drawings and technical submittals to ensure compliance with client requirements, applicable codes, and engineering standards.

I perform fire protection design reviews from concept through detailed engineering stages, including scope definition, material selection, and review of construction documents. During project execution, I coordinate with contractors, vendors, and multidisciplinary teams to ensure proper implementation of approved designs and specifications.

My responsibilities include conducting site inspections, witnessing testing and commissioning activities, and verifying system performance in accordance with design intent and applicable standards.

In addition, I prepare technical and inspection reports for fire protection systems including sprinkler systems, standpipes, underground piping, fire pumps, water supply systems, clean agent systems, and fire alarm systems. I also lead and coordinate inspection activities on complex assignments to ensure accurate system evaluation and compliance.

I support colleagues and other engineers in resolving technical issues related to fire protection system design and implementation, providing engineering guidance as required.

Approximately 85% of my duties are engineering and site-related responsibilities, while 15% involve coordination, documentation, and reporting functions.

REPRESENTATIVE PROJECTS

I have gained progressive experience as a Fire Protection Engineer through involvement in large-scale infrastructure, industrial, and mixed-use projects in Saudi Arabia. My role has evolved from design support and calculation to independent review, inspection, and commissioning of complex fire and life safety systems.

A key project is the Haram Shamiya Expansion Project in Makkah, a major infrastructure development aimed at increasing capacity for millions of worshippers. The project includes multiple buildings, tunnels, culverts, and utility facilities such as chiller plant buildings. I am actively involved in this project as a Senior Fire Protection Engineer, where I perform detailed reviews of shop drawings and design submittals to ensure compliance with NFPA standards and local authority requirements.

My responsibilities include conducting regular site inspections to verify proper installation of fire protection and life safety systems, identifying non-compliance issues, and coordinating corrective actions with contractors and consultants. I am also involved in witnessing testing and commissioning activities, ensuring that systems operate in accordance with design intent and applicable codes. Additionally, I contribute to the preparation of technical reports, including mitigation and inspection reports, to support project compliance and safety objectives.

The project incorporates a wide range of fire and life safety systems, including automatic sprinkler systems, water mist systems, fire alarm and detection systems, fire pump systems, and other integrated life safety systems. My role requires close coordination

with multidisciplinary teams to ensure proper system integration across complex structures and infrastructure components.

In addition to this flagship project, I have been involved in several industrial and infrastructure projects, including electrical substation developments and entertainment facilities. In these projects, I have performed design review, system evaluation, and inspection of fire protection systems such as clean agent suppression systems, hydrant and fire water networks, foam systems, and fire alarm systems. I have also participated in hydraulic analysis and verification of fire water demand to ensure adequacy of system performance.

My technical expertise includes fire protection system design review and analysis, fire water demand calculations, fire water network evaluation, and fire detection and signaling systems. I routinely review IFC and shop drawings, perform site inspections, and prepare detailed reports in accordance with NFPA standards, International Building Code (IBC), and local authority requirements such as Saudi Civil Defense regulations.

I have experience in third-party and peer review of fire protection designs, including identifying deficiencies, issuing comments, and coordinating with design and construction teams to resolve technical issues. I also conduct construction surveys, develop punch lists, and witness performance testing and final system acceptance.

Additionally, I am proficient in using engineering software such as PIPENET and ELITE Fire for hydraulic calculations and system analysis, including sprinkler systems, deluge systems, standpipe systems, fire water mains, and clean agent systems such as FM-200 and Novec-1230.

Overall, my experience demonstrates progressive responsibility in fire protection engineering, encompassing design review, site implementation, system validation, and coordination across complex and multidisciplinary projects.

ANDREW STRACK (14-758-22)

All work experience reviewed by two licensed professionals

DISCIPLINE: FIRE PROTECTION

GENERAL



Applying To
Nevada

Application Type
Comity - PE

Application Date
06/12/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
15 years, 2 months

Total Engineering Experience
15 years, 2 months

Experience under licensed engineer
15 years, 2 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Mechanical Engineering (EAC)
University of Florida
August 2005–May 2009

Masters in Mechanical Engineering
Georgia Institute of Technology
August 2009–December 2010

NOTES: First discipline specific Fire Protection license.

EXAMS



Principles and Practice of Engineering (PE)
Mechanical
Georgia
April 2014

Fundamentals of Engineering (FE)
Florida PE
April 2009

Principles and Practice of Engineering (PE)
Fire Protection
Georgia
October 2018

LICENSES



Initial License
Georgia
Issued: May 2014
Expires: December 2025

Additional Licenses
AL, FL PE, KS, MD PE, NC

WORK EXPERIENCE

Enercon Services
Georgia (United States)
Engineer III
January 2011 — April 2016

Verified by
Robert Walker
kwalker@enercon.com

Experience Summary
Full-Time
Engineering: 5 years, 3 months
Post EAC degree: 5 years, 3 months
Experience under licensed engineer:
5 years, 3 months



TASKS

My experience with Enercon Services has given me an opportunity to perform design, analysis, and peer review activities. The majority of my work has involved the design of power and safety systems that recirculate water in nuclear power plants. Another large portion of my work involved the design of fire protection systems for various types of buildings located on plant sites. My design activities require the consideration of many different issues to satisfy plant specific hydraulic, thermal, and operational requirements. Each design has to be analyzed through calculations using verifiable design inputs, justified assumptions, and sound methodology to predict flow rates, head losses, and heat transfer rates (sometimes through complex geometries and flow paths) to ensure acceptable pump performance and heat removal. All of the aforementioned activities were documented under a quality assurance program through peer reviewed calculations, studies, reports, and evaluations. Other related engineering activities include developing hydraulic and heat exchanger analysis tools and providing training on these tools to peers.



REPRESENTATIVE PROJECTS

5/11 – 12/15, various projects calculating clean strainer head loss in containment

The goal of these projects was to quantify the buildup of debris on the strainers in the containment building sump that feed the emergency pumps and its effect on the flowrates providing cooling to the reactors. My role was to model the geometry of the strainer and apply empirical head loss correlations and simultaneously solve the head losses along many parallel flow paths to determine the clean strainer head loss. Afterwards, I prepared a report on the findings with technical descriptions of the modeling including inputs, assumptions, procedure, and conclusions. The head loss calculation was then used with the calculated debris buildup to determine overall suction head loss and net positive suction head at the pumps.

8/11 – 5/12, various projects performing CFD analysis for circulating water intakes

The goal of these projects was to design and analyze a potential circulating water intake that would reduce intake velocities by distributing the flow over an array of mesh screen with a large surface area to prevent fish and other wildlife from entrainment. My role was to make a 3D model of the design and the river in software called Fluent and perform computational fluid dynamics analysis on the flow in the river over the screens. Several design and flow scenarios were implemented. Afterwards, I prepared a report on the findings with technical descriptions of the modeling including inputs, assumptions, procedure, and conclusions.

3/12 – 4/16, hydraulic analysis of existing fire protections systems throughout a plant

The goal of the project was to update the plant's existing hydraulic calculations for the fire protection systems to quantify the margin of supply versus demand because of pipe degradation. My role was to model each system using software called HASS and perform hydraulic analysis to determine the required demand at each system riser. The demand was compared to the supply provided at the riser from the plant's fire pumps to determine the margin.

4/15 – 11/15, design of fire protection systems for main and auxiliary transformers

The goal of the project was to replace existing transformers and add new ones to allow the plant greater flexibility in emergency and maintenance scenarios. My role was to design the deluge fire protection systems for the new transformers including laying out heads, pipe paths, and additional valves and header in the nearby valve house. This was all documented in specifications and drawings I prepared. I also prepared hydraulic calculations to validate my design.

ANDREW STRACK (14-758-22)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

GreenbergFarrow
Georgia (United States)
Project Engineer
June 2016—June 2018

Verified by
Eric Wolf
eric@ewolfengineering.com

Experience Summary
Full-Time
Engineering: 2 years
Post EAC degree: 2 years
Experience under licensed engineer:
2 years



TASKS

My experience with GreenbergFarrow has given me an opportunity to perform design, analysis, and peer review activities. Most of my work has involved the design of fire protection systems for retail buildings in the mechanical, electrical, and plumbing (MEP) department. Another large portion of my work involves the design or peer review of mechanical and plumbing systems for gas station convenience stores. My design activities require the consideration of many different issues including meeting code requirements. Each fire protection and mechanical design must be analyzed through calculations using hydraulic and building systems software to ensure acceptable performance.



REPRESENTATIVE PROJECTS

July 2016 – June 2018, various projects adding fire protection sprinkler heads to existing systems

The goal of these projects is to design the mechanical, electrical, plumbing, and fire protection systems for retail grocery stores. In my role as fire suppression engineer, I determined the density of sprinkler heads, coordinated sprinkler head locations with other ceiling devices, and produced the final design drawings for permitting and construction.

November 2016 – June 2018, various projects preparing documents and modifying designs for convenience stores

The goal of these projects is to take a prototype design and prepare the mechanical, electrical, and plumbing drawings and calculations for permitting purposes. In my role as mechanical engineer, I researched applicable building codes to determine if any non-prototypical mechanical or plumbing changes would be required. In addition, I performed the HVAC load calculations and produced the final HVAC and plumbing design drawings for permitting and construction.

April 2017 – October 2017, design of a fire protection system for an assisted living facility

The goal of the project is to design the mechanical, electrical, plumbing, and fire protection systems for an assisted living facility. In my role as fire suppression engineer, I developed system concepts, performed engineering calculations, laid out sprinkler heads / piping / fire pump, and produced the final design drawings and specifications for the building.

WORK EXPERIENCE

Newcomb & Boyd
Georgia (United States)
Fire Protection Engineer
July 2018—June 2026

Verified by
Jeffrey Lars Linde
jlinde@newcomb-boyd.com

Experience Summary
Full-Time
Engineering: 7 years, 11 months
Post EAC degree: 7 years, 11 months
Experience under licensed engineer:
7 years, 11 months



TASKS

I design fire suppression and fire alarm systems for buildings. I am responsible for system concepts, engineering calculations, system layouts, final design drawings, and written specifications during the design of each building. I am responsible for submittal reviews, responses to contractor questions, and site visits during the construction of each building. In addition to my building projects, I manage a team of engineers responsible for fire suppression and fire alarm design of other building projects. I am responsible for assignment of building projects along with the training, professional development and mentoring of engineers. I review the design work of other fire suppression and fire alarm engineers. I develop master details and engineering tools for use by the fire suppression and fire alarm engineers.



REPRESENTATIVE PROJECTS

2018 – Gateway Mixed-Use Development
Minneapolis, MN

Project is a thirty-five-story mixed use development building with three floors of underground parking. The building includes 528,718 square feet of Class A office space; a 280 key Four Seasons Hotel; and six floors of residential units. In my role as fire alarm engineer, I developed system concepts, performed engineering calculations, and produced the final design drawings and specifications for the building during design. During the construction phase of the project, I reviewed fire alarm submittals and performed site visits.

2019 – Emory Healthcare Winship at Midtown Hospital
Atlanta, GA

Project is a 463,500 square foot high-rise hospital with 80 inpatient beds, 14 surgical suites, interventional radiology including four LINACs, various imaging modalities, central sterile, materials management, and on-demand food service. In my role as fire suppression / fire alarm engineer, I developed system concepts, performed engineering calculations, and produced the final design drawings and specifications for the building during design. During the construction phase of the project, I reviewed fire suppression / fire alarm submittals and performed site visits.

2020 – University of Tennessee Institute of Agriculture – Energy & Environmental Science Research Building
Knoxville, TN

Project is a new five-story laboratory/classroom/office building. In my role as fire suppression / fire alarm engineer, I developed system concepts for fire suppression and fire alarm systems, produced final design drawings and specifications of the fire alarm systems, and performed quality control review of the fire suppression design drawings and specifications done by another fire suppression engineer.

2021 – Woodruff Arts Center Fire Alarm Replacement
Atlanta, GA

Project is an evaluation, replacement, and reconfiguration of the fire alarm system for the Woodruff Arts Center. In my role as fire alarm engineer and project manager, I developed the Life Safety and Fire Alarm Assessment report and produced final design drawings and specifications of the replacement of the fire alarm systems. The project covered over 1,100,000 square feet of Woodruff Arts Center, including the High Museum of Art, Alliance Theater, Atlanta Symphony Orchestra, Hertz Stage, and all supporting spaces.

2022 – Corporate Campus Development
Peachtree Corners, GA

Project is a corporate campus, including a 600,000 square foot manufacturing and engineering facility, 330,000 square foot surgical training center with sixteen operating room training bays, sales training, engineering, administration, café, fitness area, and conference facilities, a central utility plant, and a standalone parking deck with approximately 1,500 spaces. In my role as fire suppression / fire alarm engineer, I developed system concepts, performed engineering calculations, and produced the final design drawings and specifications for the campus buildings.

2023 - North Carolina Department of Health and Human Services
Raleigh, NC

Project is an office high rise and adjacent parking deck and central utility plant. In my role as fire suppression / fire alarm engineer, I developed system design for fire alarm system including in-building mass notification and fire suppression monitoring and control. I developed system design for fire suppression including automatic and manual standpipes, automatic wet, dry, and preaction sprinkler systems, and clean agent systems. I performed engineering calculations, and produced the final design drawings and specifications for the project's buildings.

2024 - Morehouse School of Medicine New Academic Research Building
Atlanta, GA

Project is a classroom, lab, and office high rise and nearby parking deck. In my role as fire suppression / fire alarm engineer, I developed system design for fire alarm system including in-building speaker and strobe notification and fire suppression monitoring. I developed system design for fire suppression including automatic and manual standpipes and automatic wet and dry sprinkler systems. I performed engineering calculations, and produced the final design drawings and specifications for the project's buildings.

ANTHONY TULLY (19-945-65)

All work experience reviewed by two licensed professionals

DISCIPLINE: FIRE PROTECTION

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/27/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
6 years, 5 months

Total Engineering Experience
6 years, 5 months

Experience under licensed engineer
2 years, 6 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Mechanical Engineering (EAC)
University of Nevada, Las Vegas
August 2013–December 2019

EXAMS



Fundamentals of Engineering (FE)
Nevada
October 2019

Principles and Practice of Engineering (PE)
Fire Protection
Nevada
April 2026



LICENSES



Additional Licenses
None

ANTHONY TULLY (19-945-65)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Southland Industries
Nevada (United States)
Design Engineer II
January 2020—June 2026

Verified by
Michael Nicholas Avissao
MAvissato@southlandind.com

Experience Summary
Full-Time
Engineering: 6 years, 5 months
Post EAC degree: 6 years, 5 months
Experience under licensed engineer:
2 years, 6 months



TASKS

Fire Intern Co-Op (10/2017-12/2019): Scope not included in review. Added for clarity of job overlap.

Design Engineer I (01/2020-01/2024): Scope of work included design, permitting, and listing of fire suppression systems like sprinkler and standpipe systems. Under supervisions of Fire Protection PEs and senior designers, I worked to design and permit wet and dry sprinkler systems for a variety of projects and occupancies in commercial applications. I assisted in the design of both wet and dry automatic standpipe systems including high pressure systems and water storage tanks. I also assisted in the design of a liquid containment system, and helped review the design of clean agent systems for a data facility and a explosion mitigation system for an aerosol storage building. Job responsibilities included occupancy classification and sprinkler head selection, model system for permitting, install, and as built drawings, and run and review hydraulic calculations for systems.

Design Engineer II (01/2024-current): Scope of work included designing, permitting, listing, and supervising newer designers in the design of fire sprinkler and standpipe systems. Under supervision of Fire Protection PEs, I directly designed and worked with newer designers to design and permit sprinkler and standpipe systems for install in commercial buildings. Job responsibilities include supervise newer designers, work with design team and owners around design changes and decisions, as well as the responsibilities of my previous position.



REPRESENTATIVE PROJECTS

Resorts World Las Vegas (2019-2021): Scope included new high rise hotel tower, podium casino with atrium retail space and convention area, an on-site Central Utility Plant, parking garage, and an underground car tunnel, in Nevada. Working under the Fire Protection PE, I assisted in the design of the automatic standpipe systems and underground standpipe and designed multiple sprinkler systems throughout the building. I assisted in the design of the multiple standpipe zones spanning up the tower, with multiple fire pumps and water storage tanks located near the top of the tower. I also help calculate and model to ensure they met base and local code requirements, as well as FM Global standards. The sprinkler systems I designed covered hotels rooms, trash and linen shoots, pool cabanas and the interstitial spaces below the pool deck, the casino floor, tenant restaurants and grease ducts systems running throughout the building, and the atrium high ceiling sprinkler system. My role consisted of design, permitting, and listing for fabrication.

Sherwin Williams Research and Development Center (2022-2023): Scope of work was a new state of the art laboratory facility in Brecksville, Ohio. Working under the PE, I designed and permitted sprinkler systems and an automatic wet standpipe system for the new building. The sprinkler systems I designed included industrial duct exhaust systems, and multiple high temperature paint booths throughout, and a dry warehouse system. The building also included a flammable liquid containment system which I assisted the PE in the sizing and design of. The facility also included a detached aerosol storage building with explosion mitigation, which I had a small roll in, but primarily I was just sitting in on the design of. My role consisted of designing of sprinkler and standpipe systems under PE supervision and assisting in the design of life safety systems.

St Rose De Lima Siena Campus Henderson (2023-2024): Scope of work was a structural remediation of an existing hospital facility in Nevada and a remodel to office spaces for a portion of an existing 3 story structure that was patient facilities. Design included retaining portions of the existing wet pipe sprinkler systems while updating the design for new occupancy and layout. I also designed for install a new standpipe supply. Overseen by PE, I lead the design and calculated all systems from the city water supply for the entire scope of work. I also listed for fabrication all new pipe and worked with the field for install and as built corrections, including permitting.

St Rose De Lima Siena Campus Henderson 5th Floor (2024): Scope of work included a remodel of the top floor of the patient wing in Nevada from shell to a new ICU with patient rooms. Overseen by PE, I lead the design and calculated the new sprinkler

systems and coordinated and permitted all new work. I took on design decisions with review from PE.

[NDA Facility] (2025-2026): Scope of work was new computer parts facility designated by presidential order in Arizona. Existing foreign design plans were adapted for the new building to meet local and national code requirements and FM standards, and adjusted for any additions and changes requested. I reviewed and adjusted existing plans for permitting and install, which was reviewed by owners and Engineer of Record. New systems included wet and dry pre-action systems for the multi-story industrial facility, with clean rooms throughout.

Hard Rock Las Vegas (2025-2026): Scope of work includes a remodel of an existing podium casino and pool deck, and addition of a new high rise hotel tower in Nevada. Overseen by PE, I am designing and permitting the pool deck sprinkler systems and standpipe systems in the podium. This includes calculations and design decisions for both dry sprinkler and standpipe systems.

UNLV Brussels Parking Garage (2026): Scope of work includes new 6 story parking garage with a fire pump, dry EC sprinkler systems, and automatic dry standpipe system, located on the Nevada campus. I am working under the PE as design lead to design, calculate, and permit all systems including the fire pump and standpipe.

Land Surveyor

NATHAN ROBISON (16-845-43)

All work experience reviewed by two licensed professionals

DISCIPLINE: LAND SURVEYING

GENERAL



Applying To
Nevada

Application Type
Comity - PS

Application Date
10/05/2023

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
11 years, 10 months

Total Engineering
Experience
12 years, 5 months

Experience under licensed
engineer
None

Surveying Experience after
EAC degree
23 years, 2 months

Total Surveying
Experience
23 years, 2 months

Experience under licensed
surveyor
None

Disciplinary Action
None reported



EDUCATION



Bachelors in Geological Engineering (EAC)
University of Nevada, Reno
September 1993–December 1999

Non-degree
Great Basin College
January 2024–May 2026



NOTE: First surveying license. Bachelor's in Geological Engineering and 31 Great Basin College survey credits.

EXAMS



Fundamentals of Engineering (FE)
Nevada
October 1998

Principles and Practice of Engineering (PE)
Civil
California
April 2002

Fundamentals of Surveying (FS)
Nevada
October 2000

Principles and Practice of Surveying (PS)
Nevada
September 2023

LICENSES



Initial License
California
Issued: January 2003
Expires: June 2027

Additional Licenses
AZ, CO, FL PE, HI, ID, IA, MT, NV, NJ, NM, OR, SD, TN
PE, TX, UT, WA, WY

NATHAN ROBISON (16-845-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Sage Engineering
Associate Engineer
May 1999—August 2000

Verified by
Michael S Smith, PE, PLS

Experience Summary
Full-Time
Engineering: 1 year, 3 months
Post EAC degree: 8 months
Experience under licensed engineer:
None



DESCRIPTION

- Mine reclamation planning and cost estimating, Cortez and Rochester Mines, Nevada. Detailed mine planning, slope stability analysis, preparation of technical reports and memoranda in support of mine reclamation permitting and design.
- Differential level, athletic field, grading, residential and commercial handicapped access, grading, and drainage measurements and design
- Landfill design and as-built plan preparation
- Evaluation of an historic dam; safety, hydrologic, and seismologic analyses
- Sediment and water storage dam design, maintenance and upgrade, including outlet details and sediment evaluation
- Water rights management: mapping, records, applications, extension documentation, and systems design and reporting
- Topographic mapping, engineering measurements with total station and gps, rod and gun, FEMA flood certifications, map preparation for engineering design, and lot and construction staking for commercial and residential projects
- Underground utility evaluation and plans, residential and commercial.
- Book-keeping, payroll, and billing support, including technical content of invoices.
- Technical drafting, measurements, and support of PE and PLS staff.

NATHAN ROBISON (16-845-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Brown and Caldwell
Associate Engineer
August 2000—May 2003

Verified by
Chuck Zimmerman

Experience Summary
Full-Time
Engineering: 2 years, 9 months
Post EAC degree: 2 years, 9 months
Experience under licensed engineer:
None



DESCRIPTION

- Preparing stormwater runoff management: drainage channels, evapotranspiration cover, and water balance for closure of copper heap leach, Equatorial Tonopah Mine, Nevada. Construction management includes GPS survey, design and coordination
- Preparing engineering design and cost estimates for reclamation of an operating silver and gold mine - all facilities, Rochester Mine, Nevada
- Preparing Water Pollution Control Permit application, Rochester Mine, Nevada
- Preparing Final Permanent Closure Plan; hydrology, hydrogeology, earthwork design for closure of a tailings impoundment, Cortez Mine, Nevada
- Prepared drainage and grading plan for a commercial lot, Reno, Nevada
- HEC/RAS & HEC/HMS evaluation and report of stream hydrology for development of a 155-acre parcel adjacent to Donner Creek, Truckee, California
- Prepared conceptual site, utilities, access, and building design for a proposed Animal Shelter, Silver Springs, Nevada
- Conducted topographic survey, mapping, and design of a Final Permanent Closure Plan for a landfill, Smith Valley, Nevada
- Structural steel design of a retrofit stairwell and (volunteer) christmas ornament archway, Reno and Sparks, Nevada (respectively)
- Hydrologic evaluation and report, Ivanhoe Mine, Nevada
- Geotechnical evaluation, groundwater hydrology, and construction planning/cost estimation, Truckee, California
- Aggregate Mine reclamation planning, Truckee, California and Reno, Nevada
- ADA access/site planning, Reno High School, Nevada
- Mine reclamation planning; seismology, hydrology, geochemistry, and cost estimating, Cortez Mine, Nevada and Truckee, California
- Redesign of historic water system, Marlette Lake, Nevada
- Access road design and forest service application, Boca Lake, California
- Mine design and resource evaluation, Boca Lake, California
- Mine design, resource evaluation, field control network planning, expansion application, and mine reclamation planning and cost estimating, Martis Valley, California
- Due diligence assessment (resource, permit reconciliation, mapping, and mine planning), Cool, California
- Aerial photograph review and surface hydrology/environmental evaluation, Truckee, California
- Conceptual blast design and cost estimate for drainage of a tidal swamp, San Francisco, California
- Exploration drilling planning and management, Reno, Nevada
- Mine planning and permit application preparation, Martis Valley, Nevada
- Mine planning and resource evaluation, Boca Reservoir, California
- Mine reclamation planning and cost estimating, Cortez Mine, Nevada

NATHAN ROBISON (16-845-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Robison Engineering Company, Inc
Senior Engineer
May 2003—October 2011

Verified by
Coeur Rochester Inc, Casey Kiel

Experience Summary
Full-Time
Engineering: 8 years, 5 months
Post EAC degree: 8 years, 5 months
Experience under licensed engineer:
None



DESCRIPTION

Providing consulting engineering, land surface mapping & measurement, and land management services to a variety of clients. Services include residential, business, and special-use site development, design, and permitting, topographic mapping, construction management & control staking, GIS reconnaissance and management, water rights, mine operations, closure and reclamation planning, permitting, and operations assistance. Nathan specializes in mathematically complex analyses and CAD/Land Development/Survey/Civil 3D modeling. Nathan also manages company accounts, computer and internet systems and integration, and project management.

Selected Experience

- o Mine planning, mapping, reclamation cost estimation, facilities & environmental design & permitting (Nevada & California metal mines): Rochester Mine, Mesquite Mine, Relief Canyon, Equatorial Tonopah, Jerritt Canyon, Battle Mountain (Trenton Canyon), Mt. Polley, Billy the Kid, and others.
- o Mine planning, mapping, reclamation cost estimation & permitting (Nevada & California industrial minerals mines): Cinderlite, Nevada Cement Co., Martin Marietta, All-Lite Aggregates, Granite Construction, Teichert Materials, A&K Earthmovers, Calstone, and others.
- o Mine planning, mapping, reclamation cost estimation & permitting (international): Sao Francisco, Brazil, Sao Paula, Cerro Colorado & Fazenda Nova, Mexico
- o Integrated resource management planning; zoning, economic development, building code, environmental, agricultural, commercial and residential coordination, Duck Valley Indian Reservation, Idaho/Nevada.
- o Commercial lot development, site planning, utilities - approximately 200 projects to date
- o Residential structural & site civil engineering - approximately 150 projects to date
- o Hydrology and drainage/hydraulic control design, various mining and commercial areas, Nevada & California
- o Industrial plant foundation, grading, survey & construction management services, Nevada & California - specializing in large equipment (geothermal power production) facilities
- o Class III Landfill evaluation, permitting, and construction management - Beowawe, Smith Valley, Tonopah, and Lovelock areas, NV

NATHAN ROBISON (16-845-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Robison Engineering Company, Inc
Nevada (United States)
Principal Engineer
March 2003—May 2026

Verified by
Julianne Adria Zotter
julianne@robisoneng.com

Experience Summary
Full-Time
Surveying: 23 years, 2 months
Post EAC degree: 23 years, 2 months
Experience under licensed surveyor:
None



TASKS

General executive and shared technical authority for civil, surveying, mining and structural engineering aspects of \$6M annual professional corporation, PE licensed in 12+ states and providing civil engineering, surveying, structural and mining design, hydrology and hydraulics, water rights, and oversight, training and professional responsibility for the work of 30+ young engineers and surveyors.

I am professionally responsible for many projects in the business of Robison Engineering. Approximately 150 residential structural and/or civil, 50 commercial, and 50 mining and industrial projects annually. My role extends from initial client contact and contracting, record research, and gathering field topo and boundary data, through conceptual design and refinement meetings, review or performance of all calculations and designs, drafting and mapping, and preparation of formal survey work products including Parcel Maps, Records of Survey, and legal descriptions, through final publication, permitting, and construction support including staking, soil testing, final grade certification, and FEMA surveys. Regional expert in mining claims and compliance.



REPRESENTATIVE PROJECTS

2003-2026: A typical residential development project will involve map and title research, identification of FEMA and other controlling jurisdictions, researching NGS, NDOT, or local survey control, and performing a topographic and retracement boundary field survey to prepare a CAD base map for Civil design. Commercial projects take a similar arc, but may use UAS methods and involve additional (e.g. ALTA) survey requirements.

2023-2026: Prepared Reversion to Acreage maps, legal descriptions, and resolution of previous deed errors for parcels in Washoe, Lyon and Storey Counties.

2017-2026: Tahoe-Pyramid Bikeway: Pro-Bono and consulting Engineer for non-profit organization. In coordination with extensive engineering, I worked from maps from several counties and under Eric Sage, PLS and Dan Kelsoe, PLS to resolve property and Caltrans ROW locations for design and construction, and contributed to writing legal descriptions for easements for the trail through TMWA and private property. Performed construction staking and as-built mapping of the trail for contractor payment and repair and maintenance. Prepared GIS database of property and rights-of-way in Truckee canyon east of Sparks. Member of Board of Directors. Prepared geodetic control network for 2026 and onward construction projects.

2009-2026: Nevada State Water Rights Surveyor #1213 - perform field surveys and prepare Water Rights Maps for approximately 50 clients to date, including Sky Tavern Junior Ski Area's change point of diversion and non-consumptive water use (snowmaking) applications.

2007-2026: Mesquite Mine, Imperial County, CA - coordinated with mine surveyors to set up and maintain control network. In 2022, prepared Plan of Operations Boundary resolution from record and ~3600 acre perimeter field survey of PLSS, local, and occupation boundary evidence.

2003-2026: Performed approximately 300 FEMA elevation surveys and certificates, including complicated riverine flood zones; use and interpretation of FIS documents and coordination with hydrologic specialists. Attended 2019 NV Floodplain Managers training and led internal training class on use of the new 2023 FEMA elevation certificate.

2011-2026: Mining Claim staking, maintenance, and GIS/Survey coordination. Develop custom mine geodetic projection grid calculation system and apply to historical datasets. Resolution of multiple datums.

2019: Text revisions and assist in publication of 6th edition, "Mining claim procedures for Nevada prospectors and miners"

APPLICANT'S NAME Nathan E Robison

EXPERIENCE RECORD SUMMARY AND DESCRIPTION

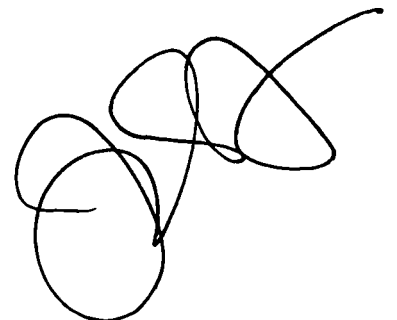
Name and Address of Employer at Time of Employment:

Sage Engineering
5865 Tyrone Road
Suite 201
Reno, NV 89502
US

Dates of Employment: 05/1999 to 08/2000

Full-Time Employment

- Mine reclamation planning and cost estimating, Cortez and Rochester Mines, Nevada Detailed mine planning, slope stability analysis, preparation of technical reports and memoranda in support of mine reclamation permitting and design
- Differential level, athletic field, grading, residential and commercial handicapped access, grading, and drainage measurements and design
- Landfill design and as-built plan preparation
- Evaluation of an historic dam, safety, hydrologic, and seismologic analyses
- Sediment and water storage dam design, maintenance and upgrade, including outlet details and sediment evaluation
- Water rights management mapping, records, applications, extension documentation, and systems design and reporting
- Topographic mapping, engineering measurements with total station and gps, rod and gun, FEMA flood certifications, map preparation for engineering design, and lot and construction staking for commercial and residential projects
- Underground utility evaluation and plans, residential and commercial
- Book-keeping, payroll, and billing support, includign technical content of invoices
- Technical drafting, measurements, and support of PE and PLS staff

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke extending to the right.

APPLICANT'S NAME Nathan E Robison

EXPERIENCE RECORD SUMMARY AND DESCRIPTION

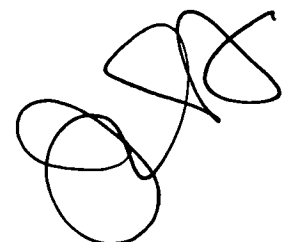
Name and Address of Employer at Time of Employment:

Brown and Caldwell
5865 Tyrone Road, Suite 201
Reno, NV 89502
US

Dates of Employment: 08/2000 to 05/2003

Full-Time Employment

- Preparing stormwater runoff management drainage channels, evapotranspiration cover, and water balance for closure of copper heap leach, Equatorial Tonopah Mine, Nevada Construction management includes GPS survey, design and coordination
- Preparing engineering design and cost estimates for reclamation of an operating silver and gold mine - all facilities, Rochester Mine, Nevada
- Preparing Water Pollution Control Permit application, Rochester Mine, Nevada
- Preparing Final Permanent Closure Plan, hydrology, hydrogeology, earthwork design for closure of a tailings impoundment, Cortez Mine, Nevada
- Prepared drainage and grading plan for a commercial lot, Reno, Nevada
- HEC/RAS & HEC/HMS evaluation and report of stream hydrology for development of a 155-acre parcel adjacent to Donner Creek, Truckee, California
- Prepared conceptual site, utilities, access, and building design for a proposed Animal Shelter, Silver Springs, Nevada
- Conducted topographic survey, mapping, and design of a Final Permanent Closure Plan for a landfill, Smith Valley, Nevada
- Structural steel design of a retrofit stairwell and (volunteer) christmas ornament archway, Reno and Sparks, Nevada (respectively)
- Hydrologic evaluation and report, Ivanhoe Mine, Nevada
- Geotechnical evaluation, groundwater hydrology, and construction planning/cost estimation, Truckee, California
- Aggregate Mine reclamation planning, Truckee, California and Reno, Nevada
- ADA access/site planning, Reno High School, Nevada
- Mine reclamation planning, seismology, hydrology, geochemistry, and cost estimating, Cortez Mine, Nevada and Truckee, California
- Redesign of historic water system, Marlette Lake, Nevada
- Access road design and forest service application, Boca Lake, California
- Mine design and resource evaluation, Boca Lake, California
- Mine design, resource evaluation, field control network planning, expansion application, and mine reclamation planning and cost estimating, Martis Valley, California
- Due diligence assessment (resource, permit reconciliation, mapping, and mine planning), Cool, California
- Aerial photograph review and surface hydrology/environmental evaluation, Truckee, California
- Conceptual blast design and cost estimate for drainage of a tidal swamp, San Francisco, California
- Exploration drilling planning and management, Reno, Nevada
- Mine planning and permit application preparation, Martis Valley, Nevada
- Mine planning and resource evaluation, Boca Reservoir, California
- Mine reclamation planning and cost estimating, Cortez Mine, Nevada



APPLICANT'S NAME Nathan E Robison

EXPERIENCE ALLOCATION

Years in Decimals to Tenths

EXPERIENCE RECORD SUMMARY AND DESCRIPTION

Name and Address of Employer at Time of Employment:

Robison Engineering Company, Inc
12810 Fellowship Way
Reno, NV 89511
US

Dates of Employment: 05/2003 to 10/2011

Full-Time Employment

Non-Engineering Education	0 0
Engineering Experience Prior to Taking the FE Examination	0 0
Engineering Experience Subsequent to FE and Prior to PE Licensure	0 0
Professional Engineering Experience Subsequent to PE Licensure	8 4
Academic Engagement	0 0

Providing consulting engineering, land surface mapping & measurement, and land management services to a variety of clients. Services include residential, business, and special-use site development, design, and permitting, topographic mapping, construction management & control staking, GIS reconnaissance and management, water rights, mine operations, closure and reclamation planning, permitting, and operations assistance. Nathan specializes in mathematically complex analyses and CAD/Land Development/Survey/Civil 3D modeling. Nathan also manages company accounts, computer and internet systems and integration, and project management.

Selected Experience

- Mine planning, mapping, reclamation cost estimation, facilities & environmental design & permitting (Nevada & California metal mines) Rochester Mine, Mesquite Mine, Relief Canyon, Equatorial Tonopah, Jerritt Canyon, Battle Mountain (Trenton Canyon), Mt. Polley, Billy the Kid, and others
- Mine planning, mapping, reclamation cost estimation & permitting (Nevada & California industrial minerals mines) Cinderlite, Nevada Cement Co., Martin Marietta, All-Lite Aggregates, Granite Construction, Teichert Materials, A&K Earthmovers, Calstone, and others
- Mine planning, mapping, reclamation cost estimation & permitting (international) Sao Francisco, Brazil, Sao Paula, Cerro Colorado & Fazenda Nova, Mexico
- Integrated resource management planning, zoning, economic development, building code, environmental, agricultural, commercial and residential coordination, Duck Valley Indian Reservation, Idaho/Nevada
- Commercial lot development, site planning, utilities – approximately 200 projects to date
- Residential structural & site civil engineering – approximately 150 projects to date
- Hydrology and drainage/hydraulic control design, various mining and commercial areas, Nevada & California
- Industrial plant foundation, grading, survey & construction management services, Nevada & California – specializing in large equipment (geothermal power production) facilities
- Class III Landfill evaluation, permitting, and construction management – Beowawe, Smith Valley, Tonopah, and Lovelock areas, NV



Mechanical

MUHAMMAD YASEEN MALLICK (16-799-00)

All work experience reviewed by two licensed professionals

DISCIPLINE: MECHANICAL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
07/02/2026

Citizenship
Canada

SUMMARY



Engineering Experience after EAC degree

Total Engineering Experience
12 years, 7 months

Experience under licensed engineer
12 years, 7 months

Disciplinary Action
None reported



EDUCATION



Meets NCEES Engineering Education Standard

Bachelors in Mechanical Engineering
NED University of Engineering and Technology
January 2002–January 2006

EXAMS



Fundamentals of Engineering (FE)
Florida PE
December 2025

Principles and Practice of Engineering (PE)
Mechanical
Florida PE
March 2026

LICENSES



Additional Licenses
None

WORK EXPERIENCE

S. Mehboob & Company Consulting
Engineers
Sindh (Pakistan)
Mechanical Engineer
May 2006—February 2008

Verified by
Muhammad Yaseen Mallick (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None

TASKS

Naima Memon was my colleague in S Mehboob & Company Consulting Engineers

As part of engineering consulting firm I performed the following tasks and duties:

- 1-Calculation of indoor space cooling/heating load for various facilities.
- 2-Sizing of major plant equipment, services' piping and ventilation ducting.
- 3-Preparation of sketches, schematics and construction drawings.
- 4-Different calculations for mechanical building services.
- 5-Estimation of bill of quantities for overall mechanical systems.
- 6-Studying and requesting catalogues from different equipment manufacturers for sizing of HVAC equipment and systems.
- 7-Sizing of major mechanical equipment like Air handling units, chillers, pumps, fans, boilers and calorifiers etc. These all equipment were based on the principles of fluid mechanics, heat transfer, thermodynamics. For example: Air handling unit core component is heating/cooling coil which is basically a cross flow heat exchanger between a cooling/heating fluid and air and heat exchanger design was studied by me during engineering study. Similarly I got familiarized in detail with each component of chiller which consist of compressor or absorber/combustion chamber (depends on the type of chiller), heat exchangers (evaporator and condenser sections) and expansion device. Chiller design is based on thermodynamic and heat transfer principles.
- 8-Pipe sizing for different services and ventilation duct sizing calculations were done by me during different phases of each project. These all calculations implemented fluid mechanics concept which I was familiar with.

REPRESENTATIVE PROJECTS

P1- Project: Air conditioning of Dubai Lagoon (Dubai Investment Park)
Location: Dubai Investment Park, Dubai, UAE
Duration: Design timeline from May 2006 to April 2007

Following is my contribution for the project:

- 1- I completed Cooling/Heating Load calculations based on ASHRAE & information provided by architect/client for electric equipment or plug loads, occupancy in various areas & façade thermal requirements for aforementioned projects including shopping mall, gymnasium, apartment buildings, hotel.
- 2- I prepared schematic & tender design including chilled water & air side schematics.
- 3- I selected various VAC equipment like fan coil units, total fresh air handling units with enthalpy wheel, Staircase pressurization fans, smoke extraction fans, sizing of pump rooms for various buildings & quantity of pumps based on chilled water requirements for each project.
- 4- I designed ductwork for various buildings including basement ventilation ,toilet & kitchen extract & make up, smoke ventilation &

staircase pressurization duct systems based on ASHRAE guidelines.

5- I designed chilled water pipe network for many buildings from building dedicated pump room to equipment inside the building while chilled water supply was supplied from main ETS room.

6- I calculated pump head, supply & extract fans external static pressures.

7- I prepared Dubai Municipality (DM) sheets including DM equipment selection summary/schedule, DM façade thermal Summary, DM glazing schedule for submission to Dubai Municipality.

8- I prepared mechanical bill of quantities for various building.

9- I prepared water supply & drainage schematics for various facilities using ASHRAE, ASPE guidelines..

P2- Project: Air conditioning & plumbing of Sofitel Tower and Shopping Mall (Now The Ocean Mall)

Location: Karachi, Pakistan

Duration: Design timeline from May 2007 to February 2008

Following is my contribution for the project:

1- I completed Cooling/Heating Load calculations based on ASHRAE & information provided by architect/client for electric equipment, occupancy in various areas & façade thermal requirements.

2- I prepared conceptual, schematics & tender design.

3- I selected and sized various VAC equipment like chillers, cooling towers, fan coil units, dedicated outdoor air handling units with enthalpy wheel, Staircase pressurization fans, smoke extraction fans.

4- I designed ductwork including basement ventilation, toilet & kitchen extract & make up, smoke ventilation & staircase pressurization duct systems based on ASHRAE guidelines.

5- I designed chilled water piping layouts, routing from central plant room to the terminal units.

6- I calculated pump head, supply & extract fans external static pressures.

7- I prepared water supply & drainage layouts using ASHRAE, ASPE guidelines.

WORK EXPERIENCE

EA Consulting Pvt Limited
Sindh (Pakistan)
Mechanical Engineer
March 2008—June 2009

Verified by
Muhammad Yaseen Mallick (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None

TASKS

As part of engineering consulting firm I performed the following duties:

- 1-Ventilation and air-conditioning (VAC) design & report preparation for various facilities.
- 2- Selection of efficient equipment including absorption chillers, central station air handling units.
- 3- Calculations for various equipment chilled water pumps head air-handling units external static pressures.
- 4- Concept and schematic design & report making.
- 5- Kitchen ventilation system design maintaining negative pressurization relative to other areas.
- 6- Attended meetings with the architect & structural consultant related to the issues for interior & VAC requirements.
- 7- Laundry ventilation system design as per ASHRAE & client requirements.

REPRESENTATIVE PROJECTS

P1- Project: Air conditioning of Creekside Shopping Mall
Location: Defence Housing Authority Phase 8, Karachi Pakistan
Duration: Design timeline from April 2008 to December 2008

Following is my contribution for the project:

- 1- I completed Cooling/Heating Load calculations based on ASHRAE & information provided by architect/client for plug loads, occupancy in various areas and U-values for building elements.
- 2- I prepared schematic & tender design including chilled water, air side schematics, sanitary and storm drainage schematics, potable water schematics.
- 3- I selected various mechanical equipment like chillers, fan coil units, central air handling units, smoke extraction fans, etc.
- 4- I designed ductwork for entire shopping mall including basement ventilation ,food court washrooms exhaust, food court kitchen extract & make up for several retail units, smoke ventilation & staircase pressurization duct systems based on ASHRAE guidelines.
- 5- I designed chilled water piping system serving chilled water to various retail units and common areas of the mall.
- 6- I calculated pump head, supply & extract fans external static pressures.
- 7- I prepared water supply & drainage layouts and schematics using ASHRAE, ASPE guidelines.

P2- Project: Air conditioning of Blue City Amphitheatre Hotel
Location: Muscat, Oman
Duration: Design timeline from January 2009 to June 2009

Following is my contribution for the project:

- 1- I completed Cooling/Heating Load calculations based on ASHRAE & information provided by architect/client for plug loads, occupancy in various areas and U-values for building elements.
- 2- I prepared schematic & tender design including chilled water, air side schematics, sanitary and storm drainage schematics, potable water schematics and fire protection schematics.
- 3- I selected various mechanical equipment like chillers, fan coil units, central air handling units, smoke extraction fans, domestic hot water heaters, sanitary sump pumps, fire protection pumps, etc.
- 4- I designed supply, return, fresh air and exhaust ductwork for hotel and apartment buildings based on ASHRAE guidelines.
- 5- I designed chilled water piping system serving chilled water to various retail units, common areas and residential units.
- 6- I calculated pump head, supply & extract fans external static pressures.
- 7- I prepared water supply & drainage layouts and schematics using ASHRAE, ASPE guidelines.
- 8- I designed wet sprinkler and standpipe systems as per NFPA 13, NFPA 14 and applicable codes and standards.

WORK EXPERIENCE

Saudi Oger Ltd.
Riyadh (Saudi Arabia)
Mechanical Engineer
July 2009—September 2012

Verified by
Muhammad Yaseen Mallick (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None

TASKS

As part of engineering and construction departments of turnkey contracting firm I performed the following duties:

- 1- Site Inspections, quality control and resolution of technical issues on site.
- 2- Coordination with the main design team ensuring timely delivery of information to client.
- 3- Preparation of shop drawings as per mechanical construction drawings & specifications.
- 4- Managing manpower to keep the site progress on track.
- 5- Monitoring the installation of HVAC equipment for main plant and fit-out e.g. FCU, CHW pipe work, Ducting, AHU, pump sets etc. as per approved shop drawings.
- 6- Review of HVAC equipment submittals based on consultant schedules and specifications.
- 7- Preparation of detailed VAC designs of various buildings including cooling load, calculation, duct design & chilled & heating water piping design.
- 8- Instruction to CAD operators in preparation of IFC Drawings.
- 9- Coordination with other trades (electrical, structure & architecture in preparations of IFC drawings).
- 10- Preparation of design reports.
- 11- Design review of construction documents like tender drawings, specifications and submission of technical queries to the consultant.

REPRESENTATIVE PROJECTS

P1- Project: Riyadh University for Women (Princess Noura University)
Location: Riyadh, Kingdom of Saudi Arabia
Duration: Construction timeline from July 2009 to September 2012

Following is my contribution for the project:

- 1- I carried out design review of construction documents like tender drawings, specifications and submission of technical queries to the consultant.
- 2- I carried out value engineering for the mechanical services and components and further discussion with the client and consultant representatives to minimize cost without compromising on the performance.
- 3- I coordinated with other teams of sub-contractors including architect, structure and resolve the issues to prepare and issue shop drawings.
- 4- I prepared shop drawings, material submittals for overall mechanical systems/equipment (including chillers, heat exchangers, pumps, fans, etc.) and subsequent submission to the consultant for approval.

5- I provided technical guidance and timeline for approvals of materials to the contractor's procurement and construction teams.

6- I attended site weekly progress meetings to resolve technical and construction issues for smooth project progress.

7- I prepared bids/cost variations and submission to the consultant for their subsequent approval according to project's budget and payment agreement as per the contract.

8- I prepared method statements for overall system (including chillers, air-handling units, pumps, fans, compressors, fan coil units, boilers, domestic hot water heaters, etc.), components and equipment testing and commissioning procedures for chilled water system, potable water system, compressed air system, etc.

9- I prepared close-out documents for submission to the consultant including operation and maintenance manuals and training of client's technical personnel for operation and maintenance.

10- I did design and calculations for the missing mechanical systems and services within construction documents and submission to the consultant for approval.

11- I prepared documents and reports for the applicable sections of LEED New construction within mechanical services scope.

12- I reviewed the construction documents including tender drawings, tender design report for collection of any information which is missing and contradicting between these two documents. The missing information like incomplete systems and services were designed by me according to site requirements and then submitted to the consultant for approval. I followed the same operating parameters for the missing design, for example lot of ventilation ducts, chilled and potable water pipe design was missing and I had to complete it using guidelines and assistance with the seniors.

13- I provided technical assistance to the procurement team to get the quotes and compliance documents for mechanical equipment and materials in accordance with the performance parameters in the construction documents.

14- I prepared acoustic, water and air pressure drop calculations for fans, pumps using the fluid mechanics principles namely Bernoulli equation and moody chart etc. For acoustic calculations I gathered noise data from the approved manufacturers of fans and did calculations using the standard guidelines and software keeping noise reduction from different components like false ceiling void etc.

15- At the time of preparing material submittals for various mechanical equipment, I attended various workshops from different manufacturers and got familiar with their products features and a detailed performance comparison with other products in the market. It enhanced my knowledge to analyze and select best product cost and performance wise.

P2- Project: King Abdullah Development Facilities for Security Forces (Ministry of Interior KSA)

Location: Various cities, Kingdom of Saudi Arabia

Duration: Design timeline from December 2011 to September 2012

Following is my contribution for the project:

1- I completed Cooling/Heating Load calculations based on ASHRAE & information provided by architect/client for plug loads, occupancy in various areas and U-values for building elements.

2- I prepared schematic & tender design including chilled water, air side schematics, sanitary and storm drainage schematics, potable water schematics and fire protection schematics.

3- I selected various mechanical equipment like chillers, fan coil units, central air handling units, smoke extraction fans, domestic hot water heaters, sanitary sump pumps, fire protection pumps, etc.

4- I designed supply, return, fresh air and exhaust ductwork for hotel and apartment buildings based on ASHRAE guidelines.

5- I designed chilled water piping system serving chilled water to various offices and secure areas.

6- I prepared water supply, drainage, wet sprinkler and standpipe systems layouts and schematics using NFPA 13, NFPA 14, ASHRAE, ASPE guidelines and applicable codes.

WORK EXPERIENCE

CSA M&E Gulf UAE (now NV5 USA)
Abu Dhabi (Abū Ẓaby) (United Arab
Emirates)
Intermediate Mechanical Engineer
October 2012—April 2016

Verified by
Mohammad Imran
mohammad.imran@nv5.com

Experience Summary
Full-Time
Engineering: 3 years, 6 months
Experience under licensed engineer:
3 years, 6 months



TASKS

As part of an MEP Consulting firm I performed the following duties as mechanical engineer:

- 1-Design of mechanical building services including HVAC, plumbing (cold water, hot water, LPG, compressed air, vacuum, steam), sewerage, storm/surface water and fire fighting systems according to owner's project requirements, local and international codes and standards.
- 2-Coordination with other services engineers including architect, structure and resolve the issues on various projects to prepare and issue construction drawings.
- 3-Preparation of various other construction documents including reports, specifications for overall systems/equipment.
- 4-Selection of sustainable systems/equipment to give best performance at minimal energy/utilities consumption and subsequently minimal cost effect and friendly for the environment.
- 5-Site supervision including material submittals, shop drawings and work inspection approvals. Monitoring the overall site progress including timely delivery of all items/equipment and site works execution within the project schedule and timeframe. Attending site weekly progress meetings to resolve issues for smooth project progress.
- 6-Analysis of bids/cost variations submitted by the contractor and their subsequent approval according to project's budget and specifications.
- 7-Monitoring the health and safety measures on site and recommendations to implement any flaws.
- 8-Inspection and approval of testing and commissioning procedures for overall systems and equipment.
- 9-Approval of close-out documents including operation and maintenance manuals and training of client's technical personnel for operation and maintenance.
- 10-Energy modelling for various projects in accordance with ASHRAE 90.1 and using software like E-Quest & IES VE to comply with LEED and Estidama.



REPRESENTATIVE PROJECTS

- P1: Al Salam Aircraft Hangars
Location: Riyadh, Kingdom of Saudi Arabia
Duration: Design and construction timeline from May 2014 to May 2016
- P2: Jebel Ali School
Location: Dubai, United Arab Emirates
Duration: Design and construction timeline from October 2012 to May 2014
- P3: Strata Manufacturing PJSC
Location: Al Ain, United Arab Emirates
Duration: Design and construction timeline from September 2013 to April 2015

Following is my contribution for the aforementioned projects:

- 1- I designed ventilation and air-conditioning (cooling & heating) systems for new F15 maintenance, fuel/de fuel, helicopter hangars and redesigned existing paint hangars. (P1)
- 2- I designed ventilation and air-conditioning (cooling & heating) systems for kindergarten, junior and secondary school buildings. (P2)
- 3- I designed ventilation and air-conditioning (cooling & heating) systems for manufacturing plant including various workshops, office area and central plant. (P3)
- 4- I did the calculation of cooling/heating/ventilation (including demand controlled ventilation) according to client's requirements and ASHRAE standards. (P1, P2 and P3)
- 5- I prepared control strategy/sequence of operations and BMS points list for mechanical equipment and systems. (P1, P2 and P3)
- 6- I proposed and designed plumbing and drainage systems which includes briefly the potable cold/hot water layouts, major equipment like potable water pumps, boilers, solar hot water panels, waste/soil/vent/storm water piping layouts, lifting stations pressure head calculations, emergency eye wash/shower stations, trench drainage for washing and disposal of flammable liquids/fuels. (P1, P2 and P3)
- 7- I prepared construction documents including specifications, reports and IFC drawings. (P1, P2 and P3)
- 8- I designed fire protection systems which includes briefly automatic sprinkler, wet standpipe system, clean agent systems for server, electrical rooms, hydraulic calculations, fire pumps in accordance with NFPA and local Civil defense standards. (P1, P2 and P3)
- 9- I carried out analysis and calculated the requirements of compressed air in aircraft paint & maintenance hangar in accordance with Boeing standards and design of overall compressed air system. (P1 and P3)
- 10- I carried out evaluation tender bids, monitoring of contractor's progress, analysis of contractor's payments claims, review of shop drawings, material submittals, method statements, risk assessment reports and give approvals on these in line with construction documents. (P1, P2 and P3)
- 11- I inspected installation progress of overall mechanical services and equipment, raising non-conformance reports (NCRs) and attending site meetings. I inspected testing and commissioning of fire protection systems including foam (AFFF) deluge, sprinklers and foam hose stations. (P1, P2 and P3)
- 12- I witnessed air balancing, chilled water pressure testing and gave subsequent approvals. I also witnessed testing & commissioning of BMS for mechanical equipment/services and gave subsequent approvals. (P1, P2 and P3)
- 13- I did the calculations including pressure drop within air and water systems for fans, compressors, pumps, etc., energy and cost estimates for various equipment, fuel consumption for process heating steam boilers, steam pipe sizing and pressure drops. (P1 and P3)
- 14- I performed various mechanical components and systems calculations like compressed air applying fluid mechanics concept keeping all required parameters intact like velocity, friction factor, roughness for the specified material, pressure desired within the system and output pressure, etc., and with the assistance of standard industry guidelines and software. (P1 and P3)
- 15- I identified the long lead items/equipment and their delivery periods to site, it assisted me in preparation and implementation of best possible project schedule with the coordination of other services like architecture and structure. This helped the customer to allocate required budget for the projects. (P1, P2 and P3)

WORK EXPERIENCE

Racon Engineering Inc. (Now Quasar Consulting Group)
Ontario (Canada)
Mechanical EIT
May 2016—February 2017

Verified by
Zahid Hashmi
zahid.hashmi@quasarcg.com

Experience Summary
Full-Time
Engineering: 9 months
Experience under licensed engineer: 9 months

TASKS

As part of an MEP Consulting firm I performed the following duties as mechanical EIT:

- 1- Design of mechanical building services including HVAC, plumbing (domestic cold water, hot water, natural gas piping), sanitary, storm water and fire fighting systems according to Canadian (Ontario) codes, ASHRAE and NFPA standards.
- 2-Performed site investigations prior design to include all available information and existing conditions in various retrofit projects.
- 3- Coordination with other services including architects, structure, electrical and resolve the issues on various projects to prepare and issue construction drawings.
- 4- Approval of close-out documents including operation and maintenance manuals and training of client's technical personnel for operation and maintenance.
- 5- Preparation of equipment and systems specifications for tender and construction packages.

REPRESENTATIVE PROJECTS

P1: York Administrative Centre Boiler Replacement
Location: Toronto, Canada
Duration: Design timeline from May 2016 to October 2016

P2: Vehicle Repair Maintenance Facility
Location: Toronto, Canada
Duration: Design timeline from September 2016 to December 2016

P3: Holiday Inn Express
Location: Moncton, New Brunswick Canada
Duration: Design timeline from September 2016 onwards

Following is my contribution for the aforementioned projects:

- 1- I designed ventilation and air-conditioning (cooling & heating) systems from concept till schematics stage for new Holiday Inn Express. This includes floor by floor air handling units for outdoor air, fan coil units within bedroom, energy recovery ventilators. (P3)
- 2- I designed modification of existing heating plant including replacement of existing heating boilers, heating water pumps, expansion tank, chimney and flue vents and combustion make up air modifications. (P1)
- 3- I designed ventilation and air-conditioning (cooling & heating) systems for vehicle maintenance facility including new dedicated outdoor air system, exhaust fans, unit heaters, infrared heaters. (P2)
- 4- I did the calculation of cooling/heating/ventilation (including demand controlled ventilation) according to client's requirements and ASHRAE standards. (P1, P2 and P3)
- 5- I prepared control strategy/sequence of operations and BMS points list for mechanical equipment and systems. (P1, P2 and P3)

6- I designed plumbing and drainage systems which includes briefly the potable cold/hot water layouts, major equipment like potable water pumps, boilers, solar hot water panels, waste/soil/vent/storm water piping layouts, lifting stations pressure head calculations. (P2 and P3)

7- I carried out potable water and drainage calculations for domestic cold and hot water system, sanitary and storm drainage systems using ASHRAE guidelines, fixture units methods. (P2 and P3)

8- I prepared construction documents including specifications, reports and IFC drawings. (P1, P2 and P3)

9- I designed fire protection systems which includes briefly automatic sprinkler, wet standpipe system, fm 200 systems for server, electrical rooms, hydraulic calculations, fire pumps in accordance with NFPA and local Civil defense standards. (P2 and P3)

10- I carried out review of shop drawings, material submittals, method statements, risk assessment reports and give approvals on these in line with construction documents. (P1, P2 and P3)

11- I did the calculations including pressure drop within air and water systems for fans, pumps, etc., energy and cost estimates for various equipment, fuel consumption for heating boilers. (P1, P2 and P3)

WORK EXPERIENCE

MAT 4Site Engineers Ltd.
Ontario (Canada)
Senior Mechanical Engineer
March 2017–October 2022

Verified by
Anthony Luigi Colin
anthony@mat4site.com

Experience Summary
Full-Time
Engineering: 5 years, 7 months
Experience under licensed engineer:
5 years, 7 months

TASKS

As part of MEP consultant I performed the following duties as a senior mechanical engineer:

- 1- Designed (HVAC, plumbing, building automation, fire protection systems, wet utilities), supervised, managed, tested and commissioned various buildings/facilities (institutional, commercial, pharmaceutical, residential, industrial, data center) as part of major/minor renovations/upgrades/new construction from concept stage till final handover to building owners and operators.
- 2- Prepared feasibility studies, reports for different projects including assessment of existing mechanical systems, equipment and assets.
- 3- Prepared drawings, specifications and other permit/construction documents.
- 4- Delegated the work to designers/junior engineers under my supervision and reviewed the completed tasks to adhere company's quality control's policy and guidelines.
- 5- Monitoring of budget and schedule during entire engineering projects' cycle.
- 6- Implemented new technology and ideas in projects' design to achieve energy efficient and sustainability goals.
- 7- Commissioned various projects, prepared commissioning plans, functionally verified the operation of equipment and systems after installation and prepared commissioning reports.
- 8- Involved in client relationships to the successful project execution.
- 9- Managed a team of 3 to 4 junior engineers/designers and BIM/AutoCAD technicians to execute project tasks and achieving project milestones. Reviewed work of project team members to comply company and applicable building codes/standards.
- 10- Attended project meetings with project stakeholders, sub-consultants, contractors and suppliers.
- 11- Executed construction and contract administration of projects including review of shop drawings, review of work of contractors, responding to contractor's clarifications//RFIs, approving progress draws, change orders and invoices, carrying out field review, preparation of field review reports, coordination with the city for permit close-out, preparation of permit close-out and substantial/total completion letters.
- 12- Reviewed and approved final close-out documents including as-builts, O&M manuals.
- 13- Prepared commissioning plans for various mechanical systems and equipment.
- 14- Carried out performance verification of mechanical systems and equipment as per approved commissioning plans.

REPRESENTATIVE PROJECTS

P1: Toronto Community Housing – Cooling and Heating Plant Upgrades
Location: Toronto, Ontario Canada
Duration: Design and construction timeline from March 2017 to December 2018

The project scope covered the demolition and replacement of existing water cooled chiller, chilled/condenser water pumps,

existing heating boilers, primary/secondary heating pumps, expansion vessel in the mechanical plantroom on the roof of this high rise residential building. I calculated the block cooling and heating load of the building considering the information available in the base building architectural drawings related to U-values of walls, roof, floor and furniture layout for occupancy estimation. I calculated the required ventilation and exhaust airflow rates based on the occupancy and floor plans i.e. gross area within apartments, common areas complying ASHRAE standard 62.1. I calculated the required cooling and heating load for water-cooled chiller and heating boilers. I selected and sized the correct chiller (centrifugal), heating boilers (condensing) and corresponding pumps. I calculated the pressure drop for chilled water and heating water pumps considering the whole building chilled water and heating water layouts. I prepared the demolition/modification layouts showing the aforementioned scope, performance specifications under division 23 and 25 of National Master Specifications (NMS) and other contract documents. I reviewed material shop drawings comparing to the contract documents during construction stage.

P2: Toronto Community Housing – Plumbing System Upgrades

Location: Toronto, Ontario Canada

Duration: Design and construction timeline from May 2018-October 2019

The project scope included replacement of existing domestic cold water, domestic hot water and domestic hot water return piping including the risers, horizontal piping within plant room, domestic hot water boilers, hot water distribution pumps, domestic hot water storage tanks in this high rise residential building. I calculated the domestic cold water, domestic hot water demand using water supply fixture units as mentioned in Ontario building code for different plumbing fixtures. I calculated domestic hot water storage demand utilizing the method defined in ASHRAE handbooks. I estimated the pump head for various distribution pumps providing domestic cold and hot water from ground floor mechanical room to levels above and the pumps on domestic hot water return loop. I developed performance schedule of hot water boilers, distribution pumps, storage tanks describing various performance parameters like heat recovery rate, storage volume, pump head, flowrate, heating capacity, etc. I developed material and installation specifications under division 22 of NMS for potable water piping system. I reviewed all technical documents like material shop drawings, commissioning plans comparing to the contract documents during construction stage.

P3: Huronia Regional Centre Steam Plant

Location: Orillia, Ontario Canada

Duration: Design and construction timeline from July 2019-March 2021

The project scope encompassed the development of new steam plant after study of existing heating system for the entire heritage complex. I performed the calculations of heating load utilizing the existing architectural layouts, assuming some internal loads, estimated the heating demand for the new steam boilers, storage volume and temperature/pressure conditions of deaeration equipment, flow and head of feedwater pumps, makeup water flowrate and chemical quantities of chemical treatment equipment. I prepared the construction documents for contractor's bidding including commissioning plans, sequence of operations.

P4: Peel Arts Gallery and Museum Archives – HVAC and Building Envelope Upgrades

Location: Brampton, Ontario Canada

Duration: Design and construction timeline from January 2021-October 2022

The mechanical scope comprised of provision of new variable refrigerant flow (VRF) system, energy recovery ventilator, dehumidifiers, humidifiers and demolition of existing water-cooled heat pumps within various museum spaces storing different artifacts. I analyzed the temperature/humidity requirements as per ASHRAE handbooks and end-user needs. I performed the cooling, heating, dehumidification and humidification load calculations considering plug loads, artifacts, outdoor and indoor temperature and humidity conditions. I developed the construction drawings and specifications incorporating heating, ventilation, air-conditioning equipment and systems for maintenance of strict temperature/humidity conditions. I calculated the fan pressure drop calculations for ducted indoor units (part of the VRF system) serving various zones. I performed the energy recovery calculations achieving minimum 60% heat exchanger effectiveness of energy recovery ventilator. I developed sequence of operations, controls points list for aforementioned equipment and systems for integration with the base building monitoring and management system. I resolved all technical issues during execution stage providing energy efficient and cost effective solutions.

WORK EXPERIENCE

Quasar Consulting Group
Ontario (Canada)
Project Mechanical Engineer
November 2022—June 2023

Verified by
Zahid Hashmi
zahid.hashmi@quasarcg.com

Experience Summary
Full-Time
Engineering: 7 months
Experience under licensed engineer:
7 months

TASKS

As part of an MEP Consulting firm I performed the following duties as a licensed project mechanical engineer in Ontario Canada:

- 1- Design of mechanical building services including HVAC, plumbing (domestic cold water, hot water, natural gas piping), sanitary, storm water and fire fighting systems according to Canadian (Ontario) codes, ASHRAE, NFPA, LEED for New Construction and Major Renovations and Passive House Design standards.
- 2-Performed site investigations prior design to include all available information and existing conditions in various retrofit projects.
- 3- Coordination with other services including architects, structure, electrical and resolve the issues on various projects to prepare and issue construction drawings.
- 4- Approval of close-out documents including operation and maintenance manuals and training of client's technical personnel for operation and maintenance.
- 5- Preparation of equipment and systems specifications for tender and construction packages.
- 6- Witnessing of commissioning activities for mechanical systems and equipment.

REPRESENTATIVE PROJECTS

P1: Bank of Montreal Net Zero Branches
Location: Various locations in Toronto, Canada
Duration: Design timeline from November 2022 to June 2023

P2: CIBC Bank Branch Upgrades
Location: Kelowna, British Columbia Canada
Duration: Design timeline from December 2022 to May 2023

P3: SmartStop Self Storage Facility
Location: Hamilton, Ontario Canada
Duration: Design timeline from November 2022 onwards

Following is my contribution for the aforementioned projects:

- 1- I designed ventilation and air-conditioning (cooling & heating) systems from concept till issued for construction stage for new Smartstop self storage facility and Bank of Montreal branches. This included design of packaged rooftop units, supply and return ductwork, natural gas piping, sizing and selection of grilles and diffusers, sizing and selection of motorized dampers. (P1 and P3)
- 2- I designed modification and replacement of existing CIBC bank packaged rooftop units including modification of natural gas piping, roof curbs. This design by me also included replacement and resizing of supply and return ductwork in ceiling spaces, sizing, selection and replacement of air outlets. (P2)
- 3- I did the calculation of cooling/heating/ventilation (including demand controlled ventilation) according to client's requirements and ASHRAE standards considering space type, occupancy requirements, building envelope characteristics, infiltration and plug loads in various spaces or areas. (P1, P2 and P3)
- 4- I prepared and specified control strategy/sequence of operations and BMS points list for mechanical equipment and systems.

(P1, P2 and P3)

5- I designed plumbing and drainage systems which included briefly the potable cold/hot water layouts, major equipment like potable water pumps, boilers, solar hot water panels, waste/soil/vent/storm water piping layouts, lifting stations pressure head calculations. (P1, P2 and P3)

6- I carried out potable water and drainage calculations for domestic cold and hot water system, sanitary and storm drainage systems using ASHRAE guidelines, fixture units methods and surface run-off guidelines. (P1, P2 and P3)

7- I prepared construction documents including specifications, reports and IFC drawings. (P1, P2 and P3)

8- I designed fire protection systems which included briefly automatic sprinkler, wet standpipe system, hydraulic calculations, fire pumps in accordance with NFPA and local Civil defense standards. (P1 and P3)

9- I carried out review of shop drawings, material submittals, method statements, risk assessment reports and give approvals on these in line with construction documents. (P1, P2 and P3)

10- I did the calculations including pressure drop within air and water systems for fans, pumps, etc., energy and cost estimates for various equipment, fuel consumption for heating boilers. (P1, P2 and P3)

11- I represented my employer during project meetings related to the design stages of different projects. (P1, P2 and P3)

WORK EXPERIENCE

Bechtel Inc.
Eastern Province (Saudi Arabia)
Senior Mechanical Engineer
July 2023—September 2025

Verified by
Mohammed O M Baroud
mbaroud2@bechtel.com

Experience Summary
Full-Time
Engineering: 2 years, 2 months
Experience under licensed engineer:
2 years, 2 months

TASKS

As part of customer's delivery partner and project management consultant I performed the following duties as a senior mechanical engineer:

- 1- Served as authorized representative of Royal Commission of Jubail and Yanbu (RCJY) on various construction projects under the leadership of Project Resident Engineer.
- 2- Carried out constructability reviews and analysis on mechanical design documents prepared by architect/engineering (A/E) firms and provided comments in the form of reports. The review and analysis performed by me were according to applicable codes and standards.
- 3- Prepared design documents for minor changes as part of in-house design team.
- 4- Provided field supervision of mechanical construction activities, tracking of contractors' performances and adherence to approved construction schedule, budget.
- 5- Attended meetings during construction supervision as per PMC services and resolving construction issues.
- 6- Approved material submittals, inspection and testing plans, method statements, design change documents, change orders, field directives complying project specifications and contract documents.
- 7- Monitored the mechanical construction activities and enforcing the compliance of RCJY's ESH policies, plans and regulations.
- 8- Provided guidance to junior mechanical engineers and mentoring as necessary.
- 9- Reviewed and approved final close-out documents including as-builts, O&M manuals.
- 10- Reviewed and approved invoicing from contractors for mechanical scope.
- 11- Assisted resident engineer for project controls activities related to scope, schedule, budget, resources and quality.
- 12- Reviewed and approved contractors' procurement plan for construction materials, equipment and subcontractors.
- 13- Reviewed and approved commissioning plans for various mechanical systems and equipment.
- 15- Carried out performance verification of mechanical systems and equipment as per approved commissioning plans.
- 16- Designed mechanical building services including HVAC, plumbing (domestic cold water, hot water, natural gas piping), sanitary, storm water and fire fighting systems according to International building code, ASHRAE, NFPA, LEED for New Construction and Major Renovations.

REPRESENTATIVE PROJECTS

P1: Jubail University City's Auditorium Building, Sports Center, District Cooling Plant and Underground Chilled Water Piping Distribution
Location: Jubail, Saudi Arabia
Duration: Design and construction timeline from July 2023 to September 2025

The project's mechanical scope comprised of design and construction of heating, ventilation, air-conditioning (HVAC), fire protection, plumbing and drainage systems of new auditorium building (to accommodate approx. 2000 people), sports center, district cooling plant (for the entire campus) and underground chilled water distribution (from district cooling plant to various buildings in the campus) for Royal Commission of Jubail and Yanbu (RCJY). Bechtel Saudi Arabia was serving as delivery partner to RCJY. I reviewed design documents and reports submitted by in-house and external engineering organizations during various stages of the design. I analyzed, verified, evaluated all the engineering calculations, assumptions, design briefs and technical proposals included in the design documents and reports for the compliance with the Saudi Building Code, Saudi Mechanical Code, Saudi Plumbing Code, Saudi Fire Code, Saudi Energy Conservation Code and RCJY Engineering Manual. The aforementioned codes are locally adopted versions of International Building Code (IBC), International Mechanical Code (IMC), International Plumbing Code (IPC), International Fire Code (IFC) and International Energy Conservation Code (IECC).

I provided the feedback on the design and calculations of HVAC equipment (air-handling units, fan-coil units, VAV boxes, water-cooled chillers, cooling towers, distribution pumps, refrigerant gas detection sensors/controllers, air outlets, thermal energy storage tanks, swimming pool dehumidifiers, kitchen hood exhaust fans, general supply and exhaust fans, etc.), potable water equipment (solar heating loop, electric storage water heaters, etc.), fire protection equipment (jockey, electric duty/standby pumps, controllers, etc.), sanitary and storm drainage equipment (sanitary sump pumps, storm drainage sump pumps, etc.), controls equipment (controllers, sensors, transmitters, etc.) and vertical transportation equipment (elevators and escalators). I recommended several design changes to be made on the aforementioned systems and equipment as part of the review process. I developed construction documents including performance and material specifications for these equipment and systems.

I evaluated substitution of several mechanical equipment and components as per construction specifications, the substitution incorporated different performance and material specifications than the construction specifications, I recommended approval and rejection of alternate equipment considering all the relevant performance parameters like flowrate, pressure or head, energy efficiency, low or high water consumption, etc. I During construction, I reviewed all mechanical technical and non-technical submittals like shop drawings, commissioning plans, bill of quantities, value engineering, mechanical floor plans, mechanical schematics, invoices for mechanical works and provided recommendations and feedback accordingly. I analyzed and witnessed the performance verification of aforementioned mechanical equipment and systems during the commissioning process. I prepared commissioning reports documenting all the issues observed during commissioning. I provided recommendations to resolve all the issues for compliance with the contract documents and applicable codes and standards.

P2: Feedstock, Fuel Gas, Sea Water Cooling Pipe Distribution Upgrades and Expansion

Location: Jubail, Saudi Arabia

Duration: Design and construction timeline from July 2024 onwards

The project scope covered design and construction of fuel gas, feedstock and sea water cooling piping expansion serving a large under-construction petrochemical complex (by Saudi Aramco). I, as part of Bechtel Saudi Arabia (delivery partner of RCJY), reviewed the design and construction documents from external engineering consultants and contractors for the compliance with International Building Code, standards from American Society of Mechanical Engineers (ASME), American Petroleum Institute (API), RCJY engineering manual and other environmental regulations. I developed several recommendations for alternate technical options and enforced implementations during design and execution stages. I analyzed the technical assumptions, stress analysis calculations, pressure drop calculations and sizing criteria included in the design documents for performance parameters (like temperature, flowrate, pressure classification, application, etc.) for various valves, fittings, accessories, supports, guides, anchors and expansion loops.

MUHAMMAD YASEEN MALLICK (16-799-00)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Mott MacDonald
Ontario (Canada)
Senior Mechanical Engineer
October 2025—July 2026

Verified by
Muhammad Yaseen Mallick (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None



TASKS

- As part of MEP consultant I performed the following duties as a senior mechanical engineer:
- 1- Designed mechanical building services system including HVAC, plumbing, building automation, fire protection systems.
 - 2- Prepared energy audit reports for various facilities including condition assessment of existing assets, equipment and systems providing mechanical building services.
 - 3- Prepared drawings, specifications and other permit/construction documents.
 - 4- Delegated the work to designers/junior engineers under my supervision and reviewed the completed tasks to adhere company's quality control's policy and guidelines.
 - 5- Involved in client relationships to the successful project execution.



REPRESENTATIVE PROJECTS

P1: Humber River Hospital Energy Audit
Location: Toronto, Canada
Duration: October 2025 to April 2026

The project's mechanical scope comprised of energy auditing of heating, ventilation, air-conditioning (HVAC), fire protection, plumbing and drainage, interior lighting, exterior lighting, power systems of this multistorey hospital building. I reviewed the performance and energy requirements of each piece of equipment under aforementioned building systems including pumps, air-handling units, fan-coil units, fans, medical gas equipment, etc. I carried out the energy audit level 2 as per ASHRAE standard 211 including survey of utility bills, base building drawings and commissioning documents. I prepared reports detailing several recommendations for replacement, recommissioning of various equipment and system components to reduce energy consumption and achieve energy targets in compliance with Toronto Green Standards. I analyzed and verified through reevaluation all the engineering calculations, existing equipment and systems sizing to be compliant with current building codes and other applicable standards. I recommended several changes to be made on the aforementioned systems and equipment as part of the review process. I developed construction documents including performance and material specifications for these recommendations in the report with the budget estimate and construction schedule to minimize the disruption of hospital operations.

MUHAMMAD YASEEN MALLICK (16-799-00)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

Start Date	End Date	Explanation
July 2001	December 2001	Teaching part time privately

Mining

WILLIAM EALY (14-220-59)

All work experience reviewed by two licensed professionals

DISCIPLINE: MINING

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
07/07/2026

Citizenship
United States

SUMMARY



Engineering Experience after EAC degree
12 years, 5 months

Total Engineering Experience
12 years, 5 months

Experience under licensed engineer
None

Other Experience

Disciplinary Action
None reported



EDUCATION



Non-degree
Danville Area Community College
May 2004–August 2007

Bachelors in Metallurgical Engineering (EAC)
South Dakota School of Mines and Technology
August 2007–December 2011

Masters in Business Administration
University of South Dakota
August 2015–May 2018

WAIVER REQUEST: NRS 625.183, ITEM 4, PART B.

EXAMS



Principles and Practice of Engineering (PE)
Mining and Mineral Processing
Nevada
October 2014

Fundamentals of Engineering (FE)
Nevada
April 2013

LICENSES



Additional Licenses
None

WILLIAM EALY (14-220-59)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Sumitomo Metal Mining Pogo LLC
Alaska (United States)
Plant Metallurgist Engineer in Training
January 2012—July 2012

Verified by
Richard M. Frentress
RFrentress@Gmail.com

Experience Summary
Full-Time
Engineering: 6 months
Post EAC degree: 6 months
Experience under licensed engineer:
None



TASKS

I performed daily mass and metallurgical balances across a 3,000 ton-per-day gold and silver processing facility at a remote mine site to calculate plant efficiencies, track key performance indicators, and isolate process variances. I engineered daily operating guidelines and circuit setpoints to optimize unit operations, including SAG and ball mill grinding, gravity extraction, froth flotation, regrinding, leaching, carbon-in-pulp, solvent extraction, electrowinning, refining, cyanide destruction, tailings, and paste backfill operations.

I formulated daily, monthly, and quarterly metallurgical accounting reports using plant data to trace material flows and verify plant yields. I performed structural and wear inspections of mill internals and process equipment, scheduled maintenance intervals, and calculated reagent consumption rates to forecast inventory demands. I evaluated laboratory and plant test work to diagnose chemical and mechanical circuit instabilities, and I authored standard operating procedures to handle exceptional plant operating conditions.



REPRESENTATIVE PROJECTS

During the initial six months of my tenure at Pogo Mine, my primary focus was an intensive technical orientation and operational training program under the direct supervision of the Chief Metallurgist. This foundational period was dedicated to mastering the site's complex gold extraction metallurgy, understanding SAG and ball mill grinding, gravity extraction, froth flotation, regrinding, leach, carbon in pulp, solvent extraction, electrowinning, refining, cyanide destruction, tailings, and paste backfill circuits, and developing core competencies in process monitoring and quality control protocols. Rather than managing independent projects, I systematically applied engineering principles to routine circuit optimization and daily troubleshooting, establishing the prerequisite technical and safety foundation necessary to successfully transition into full project responsibility and progressive engineering design roles.

WORK EXPERIENCE

Sumitomo Metal Mining Pogo LLC
Alaska (United States)
Plant Metallurgist Engineer in Training
July 2012—May 2014

Verified by
Sally Snell McLeod
stevemcleod@att.net

Experience Summary
Full-Time
Engineering: 1 year, 10 months
Post EAC degree: 1 year, 10 months
Experience under licensed engineer:
None

TASKS

I performed daily mass and metallurgical balances across a 3,000 ton-per-day gold and silver processing facility at a remote mine site to calculate plant efficiencies, track key performance indicators, and isolate process variances. I engineered daily operating guidelines and circuit setpoints to optimize unit operations, including SAG and ball mill grinding, gravity extraction, froth flotation, regrinding, leaching, carbon-in-pulp, solvent extraction, electrowinning, refining, cyanide destruction, tailings, and paste backfill operations.

I formulated daily, monthly, and quarterly metallurgical accounting reports using plant data to trace material flows and verify plant yields. I performed structural and wear inspections of mill internals and process equipment, scheduled maintenance intervals, and calculated reagent consumption rates to forecast inventory demands. I evaluated laboratory and plant test work to diagnose chemical and mechanical circuit instabilities, and I authored standard operating procedures to handle exceptional plant operating conditions.

REPRESENTATIVE PROJECTS

Project 1: Mill Ventilation Upgrade
Dates: July 2012 – February 2014

Scope:

Industrial ventilation and filtration expansion design for a mill building near Delta Junction, AK.

Engineering Work:

I executed the engineering planning and thermodynamic design for a mill building ventilation upgrade to mitigate airborne silica levels. I calculated comprehensive heat and mass airflow balances to establish required volumetric flow rates and system capacities. I calculated and verified structural duct sizing, path locations, and pressure drops throughout the building layout. I analyzed the mechanical specifications, filtration efficiencies, and air-handling characteristics of equipment options. I performed engineering calculations regarding the psychrometric effects of seasonal temperature fluctuations and humid makeup air to eliminate condensation freezing in standard filter systems and prevent indoor visibility degradation.

Project 2: Oxygen Plant Installation Feasibility Study
Dates: June 2012 – December 2012

Scope: Infrastructure upgrade and on-site industrial gas plant evaluation near Delta Junction, AK.

Engineering Work: I performed a formal engineering feasibility and design study for an on-site cryogenic and vacuum swing adsorption oxygen plant to replace an existing vacuum swing and liquid vaporizer storage system. I calculated process demand volumes to establish equipment sizing parameters, audited available real estate to verify footprint and location restrictions, and evaluated mechanical suitability against remote camp operating constraints. I performed an engineering economic analysis to determine the return on investment of the plant installation compared against the alternative of scaling up the existing vaporizer system to handle increased plant consumption.

Project 3: Paste Plant Automation
Dates: May 2013 – May 2014

Scope:

Process control automation for underground paste backfill planning near Delta Junction, AK.

Engineering Work:

I engineered a programmatic process control application utilizing spreadsheet architecture and Visual Basic programming to automate the calculation of paste pour plans. I embedded the plant's physical mass balances directly into the software's mathematical algorithm. This program successfully automated a complex engineering analysis, reducing a 40-hour weekly manual computational workload down to a 20-minute automated verification routine.

Project 4: Selenium Reduction & Environmental Audit

Dates: January 2013 – July 2013

Scope:

Groundwater contamination source identification and chemical source mitigation project near Delta Junction, AK.

Engineering Work:

I executed an environmental engineering audit of the chemical processing plant to isolate the point sources of selenium contamination entering local groundwater tables. I determined that the mechanism of contamination was the leaching of specific metallurgical reagents from the process tailings. I sourced alternative chemical compounds, modeled their chemical behaviors, evaluated their performance impacts on the recovery circuits, and executed the plant-wide implementation of the substitute reagents to halt selenium leaching.

WILLIAM EALY (14-220-59)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Self
Nevada (United States)
Studying for PE Exam, Prospecting
May 2014—May 2015

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

WILLIAM EALY (14-220-59)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

ServTec
Nevada (United States)
Owner/Technical Sales Representative
May 2015—July 2015

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

WILLIAM EALY (14-220-59)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Self
Nevada (United States)
Consultant/Freelancer, MBA & GMAT
Prep
August 2015—June 2016

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

WILLIAM EALY (14-220-59)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Applied Hydro Sales
Nevada (United States)
Regional Sales and Service Manager
July 2023—July 2024

Verified by

Experience Summary
Part-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

WORK EXPERIENCE

Viridian Technical Solutions
Nevada (United States)
Owner
June 2016—August 2024

Verified by
Tim Hovd
THovda@EngineeredSolutions.com

Experience Summary
Full-Time
Engineering: 8 years, 2 months
Post EAC degree: 8 years, 2 months
Experience under licensed engineer:
None



TASKS

I worked as a design engineer and in-house metallurgical and materials specialist working as an independent contractor for an original equipment manufacturer. I evaluated system hydraulics for booster pumping stations, determined sizing and dosage rates for chemical treatment stations, and acted as a technical specialist for high-complexity infrastructure projects throughout the United States and Canada. My responsibilities included pressure transient evaluation, system efficiency analysis, cost optimization of pumping configurations, vibration and mechanical failure analysis, complete system troubleshooting, commissioning, and operator training on pump best operating practices. I sized piping and pump systems to comply with AWWA and Hydraulic Institute standards, determined fluid-handling efficiencies, and established system-wide operational parameters. Additionally, I operated as an independent metallurgical consultant, executing materials engineering assessments and technical support for industrial operations.



REPRESENTATIVE PROJECTS

Pan Mine Heap Leach Optimization
Location: White Pine County, NV
Dates: March 2017 – April 2017

Engineering Work Performed:

I executed metallurgical process engineering and production accounting as a contract chief metallurgist at a gold heap leach facility. I analyzed heap leach and carbon circuit kinetics and optimized electrowinning and refining processes to reduce mercury generation and improve dore purity from 75% to 90%. I modified sample handling and laboratory assay procedures to eliminate statistical variability. I performed mathematical modeling of ore lime consumption to calculate required theoretical addition rates for a revised ore treatment schedule.

Cumberland Mine Dewatering Infrastructure
Location: Greene County, PA
Dates: June 2016 – December 2019

Engineering Work Performed:

I executed the hydraulic engineering and system modeling for an 18-mile mine dewatering infrastructure network. Using Hazen-Williams and Darcy-Weisbach fluid flow equations, I engineered a mathematical predictive model to calculate pipeline pressures, preventing both under and over-pressure line failures while expanding flow capacity beyond original design. I calculated the interplay between static and dynamic head losses, established pressure boundary alarms, and directed field testing, system restarts, installation inspection, and commissioning.

Northern Ohio Trihalomethane Removal Plants
Location: Northern Ohio
Dates: October 2016 – March 2021

Engineering Work Performed:

I engineered the process redesign of multiple trihalomethane stripping facilities to eliminate volatile organic compounds from potable water. I performed thermodynamic and kinetic calculations utilizing Raoult's and Henry's Laws to construct multi-phase mass balances and mass transport models. My design optimized diffusion and stripping kinetics, reducing equipment horsepower requirements by a factor of ten. I calculated equipment sizing parameters, selected mechanical process components, and directed station startup and commissioning.

Patriot Indiana Pump Shaft Failure Analysis

Location: Patriot, IN

Dates: August 2018 – December 2018

Engineering Work Performed:

I conducted a forensic materials engineering investigation into repeated pump shaft mechanical failures. I performed field vibration analysis, calculated axial thrust and tangential shaft loadings, and interpreted resulting failure surfaces to diagnose high-cycle fatigue. I coordinated third-party laboratory chemical and alloy testing, identifying a non-compliant material substitution (A36 plain carbon steel instead of 4140 alloy steel). I re-engineered pump operating conditions and specified correct alloy replacements to eliminate fatigue propagation.

Henderson Chlorine Destruction Station (EFI #94945)

Location: Henderson, NV

Dates: December 2021 – December 2022

Engineering Work Performed:

I executed the chemical process design and engineering economic analysis for a municipal chlorine destruction facility. I evaluated chemical degradation pathways to eliminate free chlorine from potable water prior to reservoir release. I calculated chemical consumption rates, established reagent compatibility profiles, selected specialized chemical dosing and mechanical process equipment, and executed full system configuration, field loop tuning, and plant commissioning.

Northern Nevada Industrial Center Raw Water System

Location: Reno, NV

Dates: August 2024 – January 2025

Engineering Work Performed:

I analyzed the process design of a raw water distribution network comprising over 20 miles of transmission pipeline, 5 discrete booster pumping stations, and a treatment facility. I executed hydraulic modeling to calculate total dynamic head, static elevation changes, and friction head losses across variable operating scenarios. I engineered pump selection configurations, verified auxiliary component suitability, and conducted an engineering economic analysis to optimize lifetime power consumption and systemic pumping costs.

WORK EXPERIENCE

EFI-Solutions & EFI Southeast
Illinois (United States)
Regional Manager & President
August 2024—July 2026

Verified by
Tim Hovda
THovda@EngineeredSolutions.com

Experience Summary
Full-Time
Engineering: 1 year, 11 months
Post EAC degree: 1 year, 11 months
Experience under licensed engineer:
None



TASKS

I provide executive engineering leadership, process design validation, and hydraulic engineering oversight for high-complexity municipal water booster pump stations and industrial fluid-handling infrastructure projects and manage a mix of direct employee and independent contractor technical sales staff serving as technical and subject matter expert under an original equipment manufacturer. I execute detailed system hydraulics evaluations, verify net positive suction head (NPSH) requirements and availability, calculate complex friction and static head losses, and model system curves to ensure compliance with AWWA and Hydraulic Institute standards and determine operating conditions.

My technical responsibilities include performing transient surge analyses, designing piping manifold configurations, establishing chemical compatibility profiles for treatment systems, and interpreting differential pressure and ultrasonic flow data during field commissioning. I evaluate mechanical equipment specifications, perform failure and vibration analyses on operational assets, and author system-wide best operating practices to optimize pumping efficiencies and lifecycle costs. I also provide regulatory compliance verification and technical design support for engineering firms, contractors, and municipal utilities across the Southeastern United States and project management oversight for other projects throughout the United States.



REPRESENTATIVE PROJECTS

Klamath Falls Booster Pumping Station Evaluation
Location: Klamath Falls, OR
Dates: August 2024 – March 2025

Engineering Work Performed:
I analyzed proposed system curves, pipeline dynamics, and transmission layout configurations to evaluate a planned booster pumping station against a pressure control alternative. I performed fluid flow calculations that revealed systemic design deficiencies, including inadequate suction head availability during peak fire flows and line velocities exceeding Hydraulic Institute allowances for concrete-lined pipe. Based on my calculations and engineering evaluation, I recommended project termination, which the company executed.

Yadkinville Booster Station Infrastructure Upgrade
Location: Yadkinville, NC
Dates: February 2025 – March 2025

Engineering Work Performed:
I executed the hydraulic engineering and spatial feasibility analysis to rehabilitate an operational water booster station. I modeled regional demand curves by calculating equivalent residential units and mapping pipeline elevation changes, lengths, and fitting fluid resistances. I cross-referenced the newly generated system curves against current station operating conditions to select replacement pumping assemblies. Additionally, I calculated physical equipment footprints against internal structure dimensions and National Electrical Code (NEC) clearance boundaries, determining full station replacement was required.

Oriental Water Treatment Plant Modernization
Location: Oriental, NC
Dates: September 2025 – June 2026

Engineering Work Performed:
I executed the technical design review and process engineering evaluation for a comprehensive water treatment plant replacement and integrated booster pumping station. I performed chemical consumption calculations, mass balances, and sizing

parameters for volatile gas stripping, filtration, chemical dosing, and SCADA infrastructure. I conducted a comparative engineering economic analysis of multiple process options to optimize capital and operational lifecycle costs, identifying budgetary variances that triggered formal system refinancing initiatives.

Port St. Lucie P1 Motor Club Booster Pumping Station

Location: Port St. Lucie, FL

Dates: March 2026 – June 2026

Engineering Work Performed:

I evaluated hydraulic system curves provided by the engineer of record to design a specialized booster pumping station for a high-demand commercial layout. I engineered integrated cross-functional parameters to handshake isolated fire-suppression and potable municipal water networks into a unified booster manifold. My planning work established capacity thresholds for an integrated standby power generation facility, determined specialized automated control protocols, and calculated sizing configurations for a multi-circuit motor control center (MCC) enclosure.

Boca Raton State Park Seawater Pumping Infrastructure

Location: Boca Raton, FL

Dates: February 2025 – June 2026

Engineering Work Performed:

I conducted a forensic materials engineering investigation into equipment and pipe failures caused by marine chloride corrosion at a seawater pumping station. I analyzed alternative corrosion-resistant alloys and specialized non-metallic material options to eliminate galvanic and pitting degradation pathways. I performed equipment sizing, material selection, and fluid process calculations for an expanded water treatment plant module incorporating industrial chilling, deep-bed media filtration, ultraviolet sterilization, and gas-transfer oxygenation systems.

7. 9:30 a.m.

Oral Interview

Jonathan Whitmire
(Time Specific)

ORAL INTERVIEW

THURSDAY, July 16, 2026

Name: **Jonathan Whitmire**

Discipline: **PLS**

Comments: In the staff review of Mr Whitmire's application, 19 months of experience obtained concurrently with his land surveying education was identified – along with 29 months of qualifying non-concurrent land surveying experience.

Consistent with the Board's September 11, 2025, motion directing staff to schedule an oral interview whenever concurrent land surveying experience is identified, the applicant has been placed on the agenda for an oral interview so the Board may assess the applicability of the concurrent experience in determining whether the statutory experience requirement has been satisfied.

Motion:

Second:

Action:

JONATHAN WHITMIRE (18-518-98)

All work experience reviewed by two licensed professionals

DISCIPLINE: LAND SURVEYING

GENERAL



Applying To
Nevada

Application Type
Initial - PS

Application Date
06/04/2026

Citizenship
United States

SUMMARY



Total Surveying Experience
5 years, 3 months

Experience under licensed surveyor
5 years, 3 months

Other Experience

Disciplinary Action
None reported



EDUCATION



Associates in Science
Tri-county technical college
May 2015–May 2016

Non-degree
University of Nevada Las Vegas
January 2017–May 2021

Non-degree
Great Basin College (Nevada, United States)
September 2022–May 2025

Bachelors in Land Surveying/Geomatics
Great Basin College
September 2022–May 2026



EXAMS



Fundamentals of Surveying (FS)
Nevada
February 2025

Principles and Practice of Surveying (PS)
Nevada
April 2025

LICENSES



Additional Licenses
None

JONATHAN WHITMIRE (18-518-98)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Performance Construction Electric
South Carolina (United States)
Electrical assistant
June 2003—December 2008

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

JONATHAN WHITMIRE (18-518-98)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

us army
US Armed Forces - Americas (United States)
specialist
February 2009—July 2015

Verified by

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



DESCRIPTION

JONATHAN WHITMIRE (18-518-98)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Wallace Morris Kline Surveying
Nevada (United States)
Survey Technician
March 2021—June 2026

Verified by
Tex J Brooks
tbrooks@wmksurveying.com

Experience Summary
Full-Time
Surveying: 5 years, 3 months
Experience under licensed surveyor:
5 years, 3 months



TASKS

I spent my first year at Wallace Morris Kline working as a chainman for a party chief who primarily did boundary and topo survey field work, but I was also mixed in to crews for construction staking of subdivisions. My next two years were spent as a solo crew party chief where my primary responsibilities were house staking and subsequent construction verification. I also spend time filling in for some boundary surveys and topo surveys. This last year until current, I have moved into the office where I am responsible for drafting legals and exhibits, topo's, ALTA's, and plats depending on the needs and with the supervision of a PLS at our firm.



REPRESENTATIVE PROJECTS

In 2022, as a party chief one of my first major tasks was to perform foundation layouts for many of the 138 individual lots in a new subdivision located in the City of Las Vegas, NV. I would receive calculated building envelop corners in an established site with control. I would utilize gis to help locate each lot, develop and coordinate a plan for total station setup in the site which was bustling with the trades of construction. I would locate, mark, and secure positions for layout offsets while simultaneously keeping meticulous stakeout sheets for future reference. Finally, I would check my stakes, notes, and stored points so as to avoid any avoidable errors. After contractors had laid out the foundation formboards, I would return to site and measure the elevation of the formboards and compare to the plan finish floor elevation. If issues were found, I coordinated with the site superintendent, and my direct supervisor at work.

In July 2024, another project that I had responsibilities for was to assist in BLM research for a state-wide project that our company is contracted for. I was responsible for identifying, collecting, and sorting pictures and scans from multiple BLM case files stored at the Clark County office. I was then responsible for drafting those pertinent case file documents for the WMK team in charge of said project and creating a notation system for keeping track of what information was found, used, or not found.

October of 2024 began another project that I have a major responsibility towards and am still currently involved. This project is an ongoing project that began as a title survey for land acquisition in the city of Henderson, NV. The ATLA survey covered a total of 40.91 acres which was split over 6 parcels, and across two counties. I used a provided title commitment, gis, and county recorder's office to help my drafting the ALTA survey. I then drafted vacation documents for the client to request for certain patent easements be vacated, and a zone change packet for zone unification. The client has requested additional topographic surveys to help support the design of the utilities for the community, and I have also drafted an offsite utility horizontal control plan to help facilitate this. I have also drafted a parent final map for the combined parcels as a merger and resubdivision into two lots, one of which will become its own plat at a future date.

Through 2025 to present, I have completed site visits, records research, legal descriptions and exhibits, topographic surveys, ALTA surveys, record of surveys, parcel maps and final maps throughout the Las Vegas area in support of my direct supervisor, a Licensed Professional Surveyor in the state of Nevada. I have also engaged with clients to aid my PLS supervisor in his survey efforts, and to fulfill the needs of those clients.

JONATHAN WHITMIRE (18-518-98)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

Start Date	End Date	Explanation
June 2016	December 2016	Stay at home dad

8. May 14, 2026, Board Meeting Minutes

NEVADA STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
Minutes of the Regular Board Meeting
Held at 241 W Charleston Boulevard, Suite 130, Las Vegas, NV 89102
on Thursday, May 14, 2026, at 8:30am

Board members participating were Chair Brent Wright, PE/SE; Vice-chair Matt Gingerich, PLS; Angelo Spata, PE; Karen Purcell, PE; Michael Kidd, PLS; Greg DeSart, PE, Tom Matter, Public Member; Robert Fyda, PE, and Jay Dixon, PE.

Also participating were Mark Fakler, Executive Director; Chris MacKenzie, Board Legal Counsel; Cassidy Wilson, Government Affairs Liaison; Murray Blaney, Operations/Compliance; and Jasmine Bailey, Licensing.

1. Meeting conducted by Chair Brent Wright, call to order and roll call of board members to determine presence of quorum—board members Matt Gingerich, Angelo Spata, Karen Purcell, Michael Kidd, Thomas Matter, Jay Dixon, Robert Fyda, Greg DeSart.

Mr Wright called the meeting to order, and a quorum was determined.

He then read the Board's purpose and mission.

The purpose of the board as stated in Nevada Revised Statute 625.005 is to safeguard life, health and property and to promote the public welfare by providing for the licensure of qualified and competent professional engineers and professional land surveyors and our mission is founded on the board's purpose, the board's mission is to uphold the value of professional engineering and land surveying licensure by assessing minimum competency for initial entry into the profession and to insure on going standard of professionalism by facilitating compliance with laws regulations and code of practice and to provide understanding and progression in licensure by openly engaging with all stake holders.

2. Pledge of Allegiance.

3. Public comment.

Mr Wright asked if there was any public comment.

Mr Hickenbottom

I filed an application for initial licensure, and I have a little thing I prepared that I like to read.

Dear members of the board, my name is Kenneth Hickenbottom, and I have filed an application for initial licensure. My application was put on hold at the last meeting so that the board could evaluate the merits of my undergraduate education in fulfilling four years of experience towards my license. I have a doctorate in civil and environmental engineering from the University of Nevada, Reno, and a Bachelor of Science in Ecology and conservation from the same institution.

First, my undergraduate education reflects significant overlap in the core sciences

required for an environmental engineering degree at the University of Nevada, Reno. I have taken the same amount of physics and statistics and exceeded the requirements of biology, chemistry, and organic chemistry in my undergraduate education. Further, I have completed the same math requirements up to differential equations in Calculus 3 at Western Nevada College, which is not reflected in my UNR transcripts, but can be provided. My upper division courses are also applicable to engineering concepts, such as source water protection, biological remediation, and microbial population dynamics. Both my undergraduate degree and undergraduate engineering degrees place a large emphasis on field work.

And then I would like to state that my undergraduate education prepared me to complete a rigorous doctorate program where I studied and published peer-reviewed articles about the effects of wildfire on drinking water treatment processes and disinfection byproducts. To be admitted as a PhD candidate to this program, I had to pass a comprehensive exam administered by the department where I had to demonstrate competence and knowledge of undergraduate engineering concepts. This degree also required me to complete 48 credits of upper division and graduate-level engineering courses, which is twice as much as a master's degree requires.

Finally, I would like to point out some recent examples of the past precedent of granting 4 years of experience for non-engineering bachelor's of science degrees. Two fellow students from my graduate school cohort, Amy Dewan and Kevin Stewart, were both deservedly granted license with two years of work experience after completing master's degrees in engineering and non-engineering bachelor's in environmental science and ecology, respectively. As recently as February of this year, the board also granted licensure with 2 years of experience to Margaret DiGiorno, who holds a master's degree in engineering and an undergraduate degree in environmental science. These are all competent, licensed engineers who have a similar background to myself.

For these reasons, I hope that the board will recognize my undergraduate degree as equivalent to 4 years of experience, and grant me the maximum 6 years education credit. I'd like to thank the board for the opportunity to clarify my educational background, and for taking the time to review my application.

There was no additional public comment

4. Introductions.

Board members and staff introduced themselves.

5. Consideration of initial licensure applicant requests to waive certain requirements of Nevada Revised Statutes and Nevada Administrative Code Chapter 625.

Ms Purcell recommended approval of the request to waive NRS 625.183 (4)(b) made by Mohamed Abdelwahan applying for mechanical engineering licensure.

26-30 A motion was made by Ms Purcell, seconded by Mr Gingerich to approve the waiver request. The motion passed unanimously.

Ms Purcell recommended approval of the request to waive NRS 625.193 (1)(a) made by Edwin Leonin applying for electrical engineering licensure.

26-31 A motion was made by Ms Purcell, seconded by Mr Fyda to approve the waiver request. The motion passed unanimously.

Mr Fyda recommended approval of the requests to waive NRS 625.183 (4)(b) made by Jhao-Hong Chen applying for environmental engineering licensure.

26-32 A motion was made by Mr Fyda, seconded by Mr Dixon to approve the waiver request. The motion passed unanimously.

6. Board approval of non-appearance applications for initial licensure. Refer to Addendum A for list of applicants.

The Board reviewed twenty-four applications in the board packet for initial licensure. Mr Wright asked for any Board member comments or concerns related to the applications.

Mr DeSart said from the last meeting he was assigned to evaluate the full transcripts and engineering experience in Mr Hickenbottom's application and report back to with a recommendation. He said based on his in-depth review he recommends approval of the application for civil engineering licensure.

Mr Fakler presented the two applications that requested special consideration - Ernesto Hernandez and Rakhi Mondal, both applying for civil engineering licensure – for review.

Mr Spata said he agreed with the staff summation of the education and experience requirements met to date, and recommended that both applicants accrue 12 months engineering experience before being re-considered for licensure. Mr Spata volunteered to review the applications at that time (May 2027) with additional experience documented and consider them for licensure on behalf of the Board.

There were no other comments from Board members.

26-33 A motion was made by Mr Spata, seconded by Mr Kidd to approve the applications for initial licensure contained in the board packet with the recommendations noted. The motion passed unanimously.

The Board reviewed fourteen additional applications in the supplement to the board packet for initial licensure. Mr Wright asked for any Board member comments or concerns related to the application. There were none.

26-34 A motion was made by Mr Kidd, seconded by Mr Gingerich to approve the applications for initial licensure contained in the supplemental packet. The motion passed unanimously.

7. Discussion and possible action on approval of March 12, 2026, board meeting minutes.

26-35 A motion was made by Mr Gingerich, seconded by Mr Kidd to approve the March 12, 2026, board meeting minutes. The motion passed unanimously.

8. Discussion and possible action on approval of April 9, 2026, interim board meeting minutes.

26-36 A motion was made by Mr Gingerich, seconded by Ms Purcell to approve the April 9, 2026, interim board meeting minutes. The motion passed unanimously.

9. Discussion and possible action on financial statements.

a. February 2026

b. March 2026

Mr Fakler gave an overview of the financial statements presented in the meeting materials. He asked if there were any questions from the Board. There were none.

26-37 A motion was made by Ms Purcell, seconded by Mr DeSart to approve the February 2026 and March 2026 financial statements. The motion passed.

10. Discussion and possible action on compliance reports by Compliance Officer.

a. Compliance officer report on complaints being investigated.

Mr Blaney reported on the status of the open compliance case files. There were no questions from members.

b. Consideration of probation reports.

Dooley Riva, PE #18231 Buckley Blew, PLS #24520 Andrew Hammond, PE/PLS #21191
Lyle Scott Mackay, PE #15131 Kevin Gutman, PE #28002

Mr Blaney presented the probation reports for Board consideration and asked if there were any questions. There were no questions from members.

11. Discussion on Board Counsel Report.

a. Consider the delegation of authority to Executive Director and Board Liaison to enter into a Litigation Monitoring Tolling Agreement on behalf of the Board with a respondent for a complaint filing with pending litigation.

Mr MacKenzie said this relates to the delegation of authority to enter into an agreement to toll the disciplinary process when the issues at hand are subject to pending litigation. He said per the Board's Rules of Practice, the investigative consideration of a validated complaint is handled by the Executive Director and a designated Board Liaison, and we are asking that they be granted the authority to make determination and enter into a Litigation Monitoring Tolling Agreement on behalf the Board for a validated complaint – where it is deemed there is no immediate concern for public safety – to delay the disciplinary investigation and consideration until the litigation is resolved. He added the hold

pauses the time component, which is one year from receipt of a complaint to filing disciplinary action, for the duration of the court process. Mr MacKenzie said delegation also preserves the due process rights of all parties involved in the complaint and removes the potential for conflicting results between the Board and the Court.

26-38 A motion was made by Mr Dixon, seconded by Mr Kidd to allow the Executive Director in conjunction with a designated Board Liaison to enter into a Litigation Monitoring Tolling Agreement with a respondent in complaints where litigation is pending and it is deemed there is no immediate risk to public safety. The motion passed unanimously.

Mr MacKenzie said he also wanted to make the Board aware of a recent AG opinion, sought by the Department of Business and Industry, that a made the determination that the Governor would have the power by declaration to restrict boards from hiring lobbyists – if he so chose. Mr MacKenzie added he was skeptical of that opinion but said it may warrant discussion at a future meeting as more information comes to light.

12. Discussion and possible action on administrative report by Executive Director.

a. Approved licensees report

Mr Fakler reviewed the approved licensee report as presented in the board packet. There were no questions from the Board.

b. Action items related to 2021-2025 Strategic Plan

i. Discuss details related to future strategic planning session

Mr Fakler said a draft of a revised Executive Summary of the Strategic Plan is a later item on the agenda for the members to review and edit as needed.

c. Items related to National Council of Examiners for Engineering & Surveying (NCEES)

i. Update from NCEES Western Zone Meeting

Mr Fakler gave a summary of the recently attended zone meeting and gave updates on travel arrangements for the upcoming annual meeting to be held in Henderson.

13. Discussion and possible action on board committee reports.

a. Administrative Procedures Oversight Committee, Chair Matt Gingerich

i. Executive director work performance and salary

Mr Gingerich said the committee conducted Mr Fakler's annual performance evaluation at the April 14 meeting and noted a summary of the evaluation is included in the meeting materials. He said the committee recognized his growth in the position and the strengths he has brought to the role. Mr

Gingerich said, although it is not stated in the evaluation document, the committee noted a need to formalize the staffing depth chart and have deeper discussion about succession planning.

Mr Kidd said he agreed with developing a succession plan and suggested the consideration of additional staff positions to meet that need.

After a brief discussion it was decided that Mr Fakler, as an action item, initiate a draft succession plan and present to the APOC committee at a later date for review and input. (ACTION Item)

Mr Gingerich said in recognition of Mr Fakler's performance the committee is recommending an 8% salary increase.

26-39 A motion was made by Mr Gingerich, seconded by Ms Purcell to accept Mr Fakler's performance evaluation and approve the 8% salary increase. The motion passed unanimously.

ii. Budget for fiscal year July 1, 2026, to June 30, 2027

Mr Fakler reviewed the proposed budget as presented in the meeting materials and answered questions from members.

Mr Gingerich said the committee considered the proposed budget at its last meeting and recommends approval to the full board.

26-40 A motion was made by Mr Kidd, seconded by Ms Purcell to approve the budget for fiscal year July 1, 2026, to June 30, 2027. The motion passed unanimously.

b. Legislative Committee report, Chair Greg DeSart

Mr DeSart said the committee had not met since the last board meeting, but would set a committee meeting before the July board meeting.

c. Professional Association Liaison Committee, Chair Michael Kidd

Mr Kidd said the PAL committee met on May 11, but there was nothing of note discussed to report.

d. Public Outreach Committee, Chair Jay Dixon

Mr Dixon said the committee has not met recently, but has a meeting scheduled for July 7.

e. PLS Standards of Practice Subcommittee of the Legislative Committee, Chair Matt Gingerich

Mr Gingerich said the committee had not met since the last board meeting, but he would set a committee meeting after the summer break relating to the NCEES PLSS Module and the possible impacts on the pathways to licensure in Nevada.

f. Governmental Outreach Committee, Chair Karen Purcell

Ms Purcell said the committee met on April 20. She said the committee reviewed potential legislative collateral prepared by staff, discussed the proposed NAC 232 regulations and their movement through the approval process, and had initial discussions on possible outreach strategies as we move closer to the 2027 legislative session.

14. Discuss revisions to NRS 327 (comments from public workshop).

Mr Fakler said in the meeting materials were the additional revisions proposed to NRS 327 following a public workshop held on April 15. He said the workshop was well attended with comments well taken, which have led to the revisions presented for consideration today. Mr Fakler reviewed the changes item by item and asked if there were any questions. There were none.

26-41 A motion was made by Mr Gingerich, seconded by Mr Kidd to approve the revisions to NRS 327 as presented. The motion passed unanimously.

15. Discussion and possible action on revisions to the 2025 Strategic Plan Executive Summary.

Mr Blaney gave an overview of the revisions to the summary requested at the previous board meeting.

26-42 A motion was made by Mr DeSart, seconded by Mr Spata to approve the 2025 Strategic Plan Executive Summary as revised. The motion passed unanimously.

16. Discuss the Office of Nevada Boards, Commissions, and Council Standards proposed regulation updates to NAC 232.XXX.

Mr Fakler said the regulations in the materials were adopted by B&I with no revisions following the most recent public workshop. The hearing was held this past Monday, and public comment was submitted on behalf of the Board. Mr Fakler added that the next step is for the regulations to be considered by the Legislative Commission on June 30, which he will attend.

17. Discuss legislative and regulatory matters with board's government liaison, Cassidy Polish.

Ms Polish gave an overview of recent Office of Nevada Boards, Commissions, and Council Standards regulation adoption hearing where the regulations proposed were adopted without amendment. She added the regulations would now move to the Legislation Commission for consideration and vote.

18. Consider bill draft requests proposed by the Legislature to amend Nevada Revised Statutes related to regulatory boards and/or changes to Nevada Revised Statutes chapter 625, 329, and 327.

Mr Fakler said there were no current items from the state to discuss but noted that revisions to NRS 327 as discussed earlier would be finalized.

19. Election of board chair and vice chair for one-year terms commencing on July 1, 2026, in

accordance with Nevada Revised Statute 625.110 and Nevada Administrative Code 625.100.

26-43 A motion was made by Mr Spata, seconded by Mr Dixon for Mr Wright and Mr Gingerich to continue in their roles as chair and vice chair respectively. The motion passed unanimously.

20. Discussion and possible action on status of board and staff assignments.

Mr Fakler said the list of current open action items was in the board packet and asked if board members had any questions.

Mr Spata requested, relating to the Board Book meeting materials, that a single final complete version be sent to the members prior to the meeting. He said this would help in referencing items – all in one table of contents and a final complete Board Book – on the day of the meeting. (ACTION Item)

21. Discussion and possible action on meeting dates.

Mr Fakler said the meeting dates were presented in the meeting materials and that calendar invites would be sent for any new meeting dates added.

22. Discussion and identification of topics for future meetings including possible proposed amendments to the Nevada Professional Engineers and Land Surveyors Law, Nevada Revised Statutes and Nevada Administrative Code Chapter 625.

Mr Fakler said he received a White Paper from the American Council of Engineering Companies (Nevada) on Qualification Based Selection (QBS) with a request of consideration and possible endorsement by the Board. He added his recommendation would be that it first be reviewed and considered by the Legislative Committee, and that he would work with the committee chair to schedule a meeting in the next few weeks. (ACTION Item)

Mr Kidd requested a future agenda item to discuss what form NCEES – in its expanded role – could assist the Board with any needs at the state legislative level. He added it would be timely to consider before the NCEES Annual Meeting in August. (ACTION Item)

23. Public comment.

Mr Smart

Good morning, Mr. Chair and Board, I appreciate the opportunity to be here. My name's Craig Smart. I'm the Director Emeritus south for ACEC, the American Council of Engineering Companies and I just wanted to come today and express appreciation for the long history that we have of collaborating and promoting and enforcing qualifications-based selection. It is a very important statute to the industry, for a myriad of benefits, including protecting, public health and safety. And, in an effort to help further define QBS as it relates to the Nevada Revised Statute, ACEC developed a position paper that we've provided to Mr Fakler.

The purpose of that paper is to parse the statute into its pertinent pieces and then connect the components as it's referenced in other areas of the statute. With the goal of having one common

definition and one common understanding of QBS in Nevada. They can be used both by the Board as well as ACEC to bolster, educate, and enforce QBS.

We appreciate your willingness to take it up and to review it very closely. As with most statutes, it takes some diving in and parsing and figuring out all the different components of it, and we appreciate your review of that, and we look forward to having further conversations. So, thank you.

24. Adjournment.

Mr Wright thanked board members for their participation and adjourned the meeting at 9:45 am.

Respectfully,

Mark Fakler
Executive Director

Addendum A - May Initials

LNAME	FNAME	ABREV	COMMENTS
Bernardi	Joseph	CE	Board approved; 5/14/26
Brar	Ripneet	CE	Board approved; 5/14/26
Bryant	Bryce	CE	Board approved; 5/14/26
Chabaud	Paul	CE	Board approved; 5/14/26
Chiem	Ryan	CE	Board approved; 5/14/26
Clark	Sierra	CE	Board approved; 5/14/26
Davis	Kara	CE	Board approved; 5/14/26

LNAME	FNAME	ABREV	COMMENTS
Delgado	Staysha	CE	Board approved; 5/14/26
Ermias	Yerab	CE	Board approved; 5/14/26
Gonzales Jr.	Steven	CE	Board approved; 5/14/26
Greer	Nicholas	CE	Board approved; 5/14/26
Hayward	Nicole	CE	Board approved; 5/14/26
Hernandez	Ernesto	CE	Gain 1 year of expeirence, will qualify for licensure 5/14/27
Hickenbottom	Kenneth	CE	Board approved; 5/14/26
Khandelwal	Himanshu	CE	Board approved; 5/14/26

LNAME	FNAME	ABREV	COMMENTS
Kotas	Christopher	CE	Board approved; 5/14/26
Lark	Chad	CE	Board approved; 5/14/26
Manandhar	Satish	CE	Board approved; 5/14/26
Mansour	Mohamed	CE	Board approved; 5/14/26
Mondal	Rakhi	CE	Gain 1 year of expeirence, will qualify for licensure 5/14/27
Ngo	Anh	CE	Board approved; 5/14/26
Ofsthun	Matthew	CE	Board approved; 5/14/26
Ramirez Zarate	Gustavo	CE	Board approved; 5/14/26

LNAME	FNAME	ABREV	COMMENTS
Sadek	Mohamed	CE	Board approved; 5/14/26
Shan	Taonian	CE	Board approved; 5/14/26
Shehtanian	Andrew	CE	Board approved; 5/14/26
Thompson	Justin	CE	Board approved; 5/14/26
Buchanan	Andrew	EE	Board approved; 5/14/26
Dreyer	Dakota	EE	Board approved; 5/14/26
Grover	Trevor	EE	Board approved; 5/14/26
Leonin	Edwin	EE	Board approved; 5/14/26; Waiver Request: NRS 625.193(1)(A)

LNAME	FNAME	ABREV	COMMENTS
Macias-Avelar	Cesar	EE	Board approved; 5/14/26
Chen	Jhao-Hong	ENVE	Board approved; 5/14/26; Waiver Request: NRS 625.183(4)(B)
Abdelwahab	Mohamed	ME	Board approved; 5/14/26; Waiver Request: NRS 625.183(4)(B)
Mercado	Noah	ME	Board approved; 5/14/26
Rydalch	Fletcher	ME	Board approved; 5/14/26
Witte	Robert	ME	Board approved; 5/14/26
Coziar	Blake	PLS	Board approved; 5/14/26; PASSED PLS Exam 6/9/26 71%

9. June 11, 2026
Interim Board Meeting
Minutes

NEVADA STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
Minutes of the Interim Board Meeting
Held virtually Thursday, June 11, 2026, at 9:15am

Board members participating were Chair Brent Wright, PE/SE; Vice-chair Matt Gingerich, PLS; Thomas Matter, public member; Greg DeSart, PE; Karen Purcell, PE; Jay Dixon, PE; Robert Fyda, PE; and Angelo Spata, PE.

Also participating were Mark Fakler, Executive Director; Chris MacKenzie, Board Legal Counsel; Jasmine Bailey; Licensing; and Derek Vogel, Communications.

1. Meeting conducted by Chair Brent Wright, call to order and roll call of board members to determine presence of quorum—board members Angelo Spata, Karen Purcell, Michael Kidd, Thomas Matter, Jay Dixon, Matt Gingerich, Robert Fyda, Greg DeSart.

Mr Wright called the meeting to order, and a quorum was determined.

2. Public comment.

There was no public comment virtually or via email.

3. Consideration of initial licensure applicant requests to waive certain requirements of Nevada Revised Statutes and Nevada Administrative Code Chapter 625.

There were no waiver requests for consideration.

4. Board approval of non-appearance applications for initial licensure. Refer to Addendum A for list of applicants.

The Board reviewed twenty-nine applications in the board packet for initial licensure.

26-44 A motion was made by Mr Fyda, seconded by Mr Spata to approve the applications for initial licensure contained in the board packet.
The motion passed unanimously.

5. Public comment.

There was no public comment virtually or via email.

6. Adjournment.

Mr Wright thanked board members for their participation and adjourned the meeting at 9:21 am.

Respectfully,

Mark Fakler
Executive Director

DRAFT

Addendum A - June Initials

LNAME	FNAME	ABREV	COMMENTS
Allred	Brendon	CE	Board approved; 6/11/26
Bonilla	Caleb	CE	Board approved; 6/11/26
Cline	Andrew	CE	Board approved; 6/11/26
Ericson	Grace	CE	Board approved; 6/11/26
Guo	Ruichen	CE	Board approved; 6/11/26
Hristov	Hristo	CE	Board approved; 6/11/26
Iddings	Jeff	CE	Board approved; 6/11/26
Kulkarni	Parag	CE	Board approved; 6/11/26

LNAME	FNAME	ABREV	COMMENTS
Miller	Jasmine	CE	Board approved; 6/11/26
Miller	Mikayla	CE	Board approved; 6/11/26
Mothkuri	Rathna	CE	Board approved; 6/11/26
Nunez Mendoza	Diego	CE	Board approved; 6/11/26
Omrani Khiabanian	Hossein	CE	Board approved; 6/11/26
Perez	Christopher	CE	Board approved; 6/11/26
Shrestha	Binita	CE	Board approved; 6/11/26
Silva Palafox	Hector	CE	Board approved; 6/11/26

LNAME	FNAME	ABREV	COMMENTS
Smith	Austin	CE	Board approved; 6/11/26
Stone	Jenna	CE	Board approved; 6/11/26
Tambay	John	CE	Board approved; 6/11/26
Wyatt	Courtney	CE	Board approved; 6/11/26
Yoro	Dylan	CE	Board approved; 6/11/26
Zuvic Lapierre	Tomislav	CE	Board approved; 6/11/26
Devore	Jake	CSE	Board approved; 6/11/26
Muqatash	Dalal	CSE	Board approved; 6/11/26

LNAME	FNAME	ABREV	COMMENTS
Adegboye	Oluwasegun	EE	Board approved; 6/11/26
Cox	Dylan	EE	Board approved; 6/11/26
Harris	Andrew	EE	Board approved; 6/11/26
Lat	Dann Limuel	ENVE	Board approved; 6/11/26
Lord	Jason	PLS	Board approved; 6/11/26

10. Financial Statements

10.a. April 2026

Nevada State Board of Professional Engineers and Land Surveyors

Budget vs. Actuals: Budget_FY26_P&L by Class - FY26 P&L Classes

July 2025 - April 2026

	TOTAL			
	ACTUAL	BUDGET	OVER BUDGET	% OF BUDGET
Income				
4000 REVENUE	1,041,844.52	870,566.70	171,277.82	119.67 %
Total Income	\$1,041,844.52	\$870,566.70	\$171,277.82	119.67 %
GROSS PROFIT	\$1,041,844.52	\$870,566.70	\$171,277.82	119.67 %
Expenses				
5100 PAYROLL EXPENSES	569,606.66	531,500.00	38,106.66	107.17 %
5110 PAYROLL TAXES	38,291.01	32,533.30	5,757.71	117.70 %
6001 OPERATING EXPENSES	699,741.60	682,541.74	17,199.86	102.52 %
Total Expenses	\$1,307,639.27	\$1,246,575.04	\$61,064.23	104.90 %
NET OPERATING INCOME	\$ -265,794.75	\$ -376,008.34	\$110,213.59	70.69 %
NET INCOME	\$ -265,794.75	\$ -376,008.34	\$110,213.59	70.69 %

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss

April 2026

	TOTAL	
	APR 2026	JUL 2025 - APR 2026 (YTD)
Income		
4000 REVENUE		
4201 Application Fees		0.00
4202 PE Comity Application	14,750.00	137,750.00
4203 PLS Comity Application	625.00	3,875.00
4204 PE Initial License Application	675.00	5,450.00
4205 PLS Initial License Application	0.00	125.00
4206 PE Reinstatement Application	1,800.00	16,800.00
4207 PLS Reinstatement Application	0.00	400.00
4208 EI Certification Application	1,400.00	10,650.00
Total 4201 Application Fees	19,250.00	175,050.00
4250 Renewals & Exam Fees		
4251 PE/PLS Renewals	56,300.00	586,615.00
4252 Renewal Late Fees	300.00	15,950.00
4253 PE License Fees	9,525.00	83,275.00
4254 PLS License Fees		9,025.00
4255 NV Specific Exam Fees	300.00	2,200.00
Total 4250 Renewals & Exam Fees	66,425.00	697,065.00
4300 Other Revenue		
4301 Replacement Certificate/Pocket	300.00	1,090.00
4303 Interest Income	6,649.59	65,302.02
4304 Discipline Pd to NV Gen Fund		5,000.00
4305 Investigative Cost Recovery		2,942.50
4306 Miscellaneous		45.00
4307 Firm Registration	5,250.00	94,400.00
4311 Waiver/Document Fees	100.00	950.00
Total 4300 Other Revenue	12,299.59	169,729.52
Total 4000 REVENUE	97,974.59	1,041,844.52
Total Income	\$97,974.59	\$1,041,844.52
GROSS PROFIT	\$97,974.59	\$1,041,844.52
Expenses		
5100 PAYROLL EXPENSES		
5102 Employee Health Insurance	4,971.16	53,790.37
5103 Employee IRA/SEP		33,697.68
5105 Payroll Service Fees	363.31	1,970.81
5107 Salaries	67,530.92	476,397.80
5108 Board Salaries		3,750.00
Total 5100 PAYROLL EXPENSES	72,865.39	569,606.66

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss

April 2026

	TOTAL	
	APR 2026	JUL 2025 - APR 2026 (YTD)
5110 PAYROLL TAXES		
5111 FICA	4,186.91	29,536.62
5113 Medicare	979.21	6,907.83
5114 Modified Business Tax		1,284.14
5117 SUI	187.61	562.42
Total 5110 PAYROLL TAXES	5,353.73	38,291.01
6001 OPERATING EXPENSES		
6006 Office Supplies	106.28	6,289.17
6007 Equipment/Furniture		
6010 Equipment Purchases		95.84
6011 Equipment Leasing	309.66	3,230.95
6012 Software		
6012.1 Deferred Exp-Software Upgrades		3,980.00
6012.5 Software	1,325.95	8,511.85
Total 6012 Software	1,325.95	12,491.85
6015 Website Hosting	1,575.00	14,175.00
Total 6007 Equipment/Furniture	3,210.61	29,993.64
6101 Insurance		
6102 Workers Comp		7,597.46
6103 General Liability		1,918.00
Total 6101 Insurance		9,515.46
6201 Postage		
6202 Postage	844.96	12,070.25
6202.5 E-Postage		1,040.00
6205 Postage Renewals		1,800.00
Total 6201 Postage	844.96	14,910.25
6301 Board Meetings		
6302 Travel - Out of State		2,318.88
6303 Travel - In State	911.85	25,633.75
6304 Board Meeting Expenses	56.97	6,505.67
Total 6301 Board Meetings	968.82	34,458.30
6401 Printing		
6402 Printing General		8,766.83
Total 6401 Printing		8,766.83

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss

April 2026

	TOTAL	
	APR 2026	JUL 2025 - APR 2026 (YTD)
6501 Professional Services		
6502 Legal		0.00
6503 Board Meetings	4,030.00	58,025.76
6504 Regulations/Legislation		0.00
6504.1 Deferred Exp-Regs/Legislation		487.50
6504.5 Regulations/Legislation	1,625.00	8,320.00
Total 6504 Regulations/Legislation	1,625.00	8,807.50
6505 Discipline	292.50	18,851.78
Total 6502 Legal	5,947.50	85,685.04
6508 Accounting Fees	2,750.00	56,725.00
6509 Government Liaison Services		
6509.5 Government Liaison	2,000.00	20,138.22
Total 6509 Government Liaison Services	2,000.00	20,138.22
6510 Database/Website Design		
6510.2 Deferred Exp-Database Update	165.00	37,320.00
6510.5 Database/Website Design		1,980.00
Total 6510 Database/Website Design	165.00	39,300.00
6511 Public Outreach	1,200.00	10,775.90
6514 Contract Labor		
6514.1 Def Exp-Contract Labor	1,198.80	89,569.81
6514.5 Contract Labor	2,152.08	35,810.20
Total 6514 Contract Labor	3,350.88	125,380.01
6515 IT Support		17,507.20
Total 6501 Professional Services	15,413.38	355,511.37
6601 Program Services		
6604 NCEES		
6605 Dues		7,500.00
6606 Registration	450.00	2,700.00
6607 Travel	-313.20	14,983.00
Total 6604 NCEES	136.80	25,183.00
6615 Bank Fees		142.00
6616 Merchant Services Fees	10,810.26	105,805.96
6630 LAS Office Support	494.40	10,307.49
Total 6601 Program Services	11,441.46	141,438.45
6700 Other		
6702 Discipline Pd to NV Gen Fund		4,450.00
6704 State Administrative Fees		
6709 Email - EITS	385.04	3,743.36
Total 6704 State Administrative Fees	385.04	3,743.36
Total 6700 Other	385.04	8,193.36

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss

April 2026

	TOTAL	
	APR 2026	JUL 2025 - APR 2026 (YTD)
6801 Training & Conferences		413.40
6802 Travel - Out of State		5,519.57
6803 Travel - In State		736.70
6804 Registration	360.00	360.00
Total 6801 Training & Conferences	360.00	7,029.67
Non State Owned Office Bldg.		
6002 Rent		
6002.2 Rent	8,233.51	76,934.77
Total 6002 Rent	8,233.51	76,934.77
6004 Utilities	109.17	757.76
6005 Telephone/Internet	458.32	5,942.57
Total Non State Owned Office Bldg.	8,801.00	83,635.10
Total 6001 OPERATING EXPENSES	41,531.55	699,741.60
Total Expenses	\$119,750.67	\$1,307,639.27
NET OPERATING INCOME	\$ -21,776.08	\$ -265,794.75
NET INCOME	\$ -21,776.08	\$ -265,794.75

Nevada State Board of Professional Engineers and Land Surveyors

Balance Sheet As of April 30, 2026

	TOTAL
ASSETS	
Current Assets	
Bank Accounts	
1001 ASSETS	1,953,781.15
Total Bank Accounts	\$1,953,781.15
Other Current Assets	
1305 Prepaid Expense	10,406.49
1310 Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	\$15,411.49
Total Current Assets	\$1,969,192.64
TOTAL ASSETS	\$1,969,192.64
LIABILITIES AND EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 Accounts Payable	-6.58
Total Accounts Payable	\$ -6.58
Credit Cards	
2027 Western Alliance Bank CC 3433	3,162.10
Total Credit Cards	\$3,162.10
Other Current Liabilities	
2001 Payroll Liabilities	29,469.72
4100 Deferred Revenue	989,656.75
Total Other Current Liabilities	\$1,019,126.47
Total Current Liabilities	\$1,022,281.99
Total Liabilities	\$1,022,281.99
Equity	
3510 Website Phase 2	30,000.00
3520 Data System Upgrade	175,000.00
3530 Electronic/Digital Pathway	175,000.00
3900 Retained Earnings	832,705.40
Net Income	-265,794.75
Total Equity	\$946,910.65
TOTAL LIABILITIES AND EQUITY	\$1,969,192.64

Nevada State Board of Professional Engineers and Land Surveyors

Balance Sheet As of April 30, 2026

	TOTAL
ASSETS	
Current Assets	
Bank Accounts	
1001 ASSETS	0.00
1051 First Indep. Bank - Operating	34,180.78
1052 First Indep. Bank - Payroll	2,649.45
1053 First Indep. Bank - Petty Cash	2,527.94
1054 First Indep. Bank - MMA	57,181.59
1055 First Indep. Bank - 24mo CD	452,498.26
1057 First Indep. Bank - 12mo CD	299,368.51
1058 First Indep. Bank - 24mo FlexCD	595,660.36
1059 First Independent Bank - 90 day CD	509,714.26
Total 1001 ASSETS	1,953,781.15
Total Bank Accounts	\$1,953,781.15
Other Current Assets	
1305 Prepaid Expense	10,406.49
1310 Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	\$15,411.49
Total Current Assets	\$1,969,192.64
TOTAL ASSETS	\$1,969,192.64
LIABILITIES AND EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 Accounts Payable	-6.58
Total Accounts Payable	\$ -6.58
Credit Cards	
2027 Western Alliance Bank CC 3433	3,162.10
Total Credit Cards	\$3,162.10
Other Current Liabilities	
2001 Payroll Liabilities	0.00
2002 Accrued Benefits	29,469.72
Total 2001 Payroll Liabilities	29,469.72
4100 Deferred Revenue	989,656.75
Total Other Current Liabilities	\$1,019,126.47
Total Current Liabilities	\$1,022,281.99
Total Liabilities	\$1,022,281.99

Nevada State Board of Professional Engineers and Land Surveyors

Balance Sheet As of April 30, 2026

	TOTAL
Equity	
3510 Website Phase 2	30,000.00
3520 Data System Upgrade	175,000.00
3530 Electronic/Digital Pathway	175,000.00
3900 Retained Earnings	832,705.40
Net Income	-265,794.75
Total Equity	\$946,910.65
TOTAL LIABILITIES AND EQUITY	\$1,969,192.64

10.b. May 2026

Nevada State Board of Professional Engineers and Land Surveyors

Budget vs. Actuals: Budget_FY26_P&L by Class - FY26 P&L Classes

July 2025 - May 2026

	TOTAL			
	ACTUAL	BUDGET	OVER BUDGET	% OF BUDGET
Income				
4000 REVENUE	1,159,349.07	999,683.37	159,665.70	115.97 %
Total Income	\$1,159,349.07	\$999,683.37	\$159,665.70	115.97 %
GROSS PROFIT	\$1,159,349.07	\$999,683.37	\$159,665.70	115.97 %
Expenses				
5100 PAYROLL EXPENSES	622,347.18	580,650.00	41,697.18	107.18 %
5110 PAYROLL TAXES	41,758.35	38,216.63	3,541.72	109.27 %
6001 OPERATING EXPENSES	764,514.07	755,295.91	9,218.16	101.22 %
Total Expenses	\$1,428,619.60	\$1,374,162.54	\$54,457.06	103.96 %
NET OPERATING INCOME	\$ -269,270.53	\$ -374,479.17	\$105,208.64	71.91 %
NET INCOME	\$ -269,270.53	\$ -374,479.17	\$105,208.64	71.91 %

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss

May 2026

	TOTAL	
	MAY 2026	JUL 2025 - MAY 2026 (YTD)
Income		
4000 REVENUE		
4201 Application Fees		0.00
4202 PE Comity Application	18,125.00	155,875.00
4203 PLS Comity Application	375.00	4,250.00
4204 PE Initial License Application	850.00	6,300.00
4205 PLS Initial License Application	25.00	150.00
4206 PE Reinstatement Application	2,200.00	19,000.00
4207 PLS Reinstatement Application	0.00	400.00
4208 EI Certification Application	950.00	11,600.00
Total 4201 Application Fees	22,525.00	197,575.00
4250 Renewals & Exam Fees		
4251 PE/PLS Renewals	71,200.00	657,815.00
4252 Renewal Late Fees	700.00	16,650.00
4253 PE License Fees	11,425.00	94,700.00
4254 PLS License Fees		9,025.00
4255 NV Specific Exam Fees	400.00	2,600.00
Total 4250 Renewals & Exam Fees	83,725.00	780,790.00
4300 Other Revenue		
4301 Replacement Certificate/Pocket	175.00	1,265.00
4303 Interest Income	5,354.55	70,656.57
4304 Discipline Pd to NV Gen Fund		5,000.00
4305 Investigative Cost Recovery		2,942.50
4306 Miscellaneous		45.00
4307 Firm Registration	5,575.00	99,975.00
4311 Waiver/Document Fees	150.00	1,100.00
Total 4300 Other Revenue	11,254.55	180,984.07
Total 4000 REVENUE	117,504.55	1,159,349.07
Total Income	\$117,504.55	\$1,159,349.07
GROSS PROFIT	\$117,504.55	\$1,159,349.07
Expenses		
5100 PAYROLL EXPENSES		
5102 Employee Health Insurance	5,553.87	59,344.24
5103 Employee IRA/SEP		33,697.68
5105 Payroll Service Fees	279.00	2,249.81
5107 Salaries	44,957.65	521,355.45
5108 Board Salaries	1,950.00	5,700.00
Total 5100 PAYROLL EXPENSES	52,740.52	622,347.18

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss

May 2026

	TOTAL	
	MAY 2026	JUL 2025 - MAY 2026 (YTD)
5110 PAYROLL TAXES		
5111 FICA	2,787.37	32,323.99
5113 Medicare	651.92	7,559.75
5114 Modified Business Tax		1,284.14
5117 SUI	28.05	590.47
Total 5110 PAYROLL TAXES	3,467.34	41,758.35
6001 OPERATING EXPENSES		
6006 Office Supplies	350.32	6,639.49
6007 Equipment/Furniture		
6010 Equipment Purchases		95.84
6011 Equipment Leasing	309.66	3,540.61
6012 Software		
6012.1 Deferred Exp-Software Upgrades		3,980.00
6012.5 Software	1,149.03	9,660.88
Total 6012 Software	1,149.03	13,640.88
6015 Website Hosting	1,575.00	15,750.00
Total 6007 Equipment/Furniture	3,033.69	33,027.33
6101 Insurance		
6102 Workers Comp		7,597.46
6103 General Liability		1,918.00
Total 6101 Insurance		9,515.46
6201 Postage		
6202 Postage	741.92	12,812.17
6202.5 E-Postage		1,040.00
6205 Postage Renewals	2,512.23	4,312.23
Total 6201 Postage	3,254.15	18,164.40
6301 Board Meetings		
6302 Travel - Out of State		2,318.88
6303 Travel - In State	4,347.81	29,981.56
6304 Board Meeting Expenses	40.12	6,545.79
Total 6301 Board Meetings	4,387.93	38,846.23
6401 Printing		
6402 Printing General		8,766.83
Total 6401 Printing		8,766.83

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss

May 2026

	TOTAL	
	MAY 2026	JUL 2025 - MAY 2026 (YTD)
6501 Professional Services		
6502 Legal		0.00
6503 Board Meetings	3,430.00	61,455.76
6504 Regulations/Legislation		0.00
6504.1 Deferred Exp-Regs/Legislation		487.50
6504.5 Regulations/Legislation	1,007.50	9,327.50
Total 6504 Regulations/Legislation	1,007.50	9,815.00
6505 Discipline	2,957.50	22,059.88
Total 6502 Legal	7,395.00	93,330.64
6508 Accounting Fees	2,750.00	59,475.00
6509 Government Liaison Services		
6509.5 Government Liaison	4,000.00	24,138.22
Total 6509 Government Liaison Services	4,000.00	24,138.22
6510 Database/Website Design		
6510.2 Deferred Exp-Database Update	2,265.00	39,585.00
6510.5 Database/Website Design		1,980.00
Total 6510 Database/Website Design	2,265.00	41,565.00
6511 Public Outreach	900.00	11,675.90
6514 Contract Labor		
6514.1 Def Exp-Contract Labor	6,540.96	96,110.77
6514.5 Contract Labor	418.08	36,228.28
Total 6514 Contract Labor	6,959.04	132,339.05
6515 IT Support	2,999.49	20,506.69
Total 6501 Professional Services	27,268.53	383,030.50
6601 Program Services		
6604 NCEES		
6605 Dues		7,500.00
6606 Registration	1,746.19	4,446.19
6607 Travel	6,740.54	21,723.54
Total 6604 NCEES	8,486.73	33,669.73
6615 Bank Fees	150.00	292.00
6616 Merchant Services Fees	7,780.38	113,586.34
6630 LAS Office Support	551.25	10,858.74
Total 6601 Program Services	16,968.36	158,406.81
6700 Other		
6702 Discipline Pd to NV Gen Fund		4,450.00
6704 State Administrative Fees		
6709 Email - EITS	385.04	4,128.40
Total 6704 State Administrative Fees	385.04	4,128.40
Total 6700 Other	385.04	8,578.40

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss

May 2026

	TOTAL	
	MAY 2026	JUL 2025 - MAY 2026 (YTD)
6801 Training & Conferences		413.40
6802 Travel - Out of State		5,519.57
6803 Travel - In State		736.70
6804 Registration		360.00
Total 6801 Training & Conferences		7,029.67
Non State Owned Office Bldg.		
6002 Rent		
6002.2 Rent	8,238.49	85,173.26
Total 6002 Rent	8,238.49	85,173.26
6004 Utilities		757.76
6005 Telephone/Internet	635.36	6,577.93
Total Non State Owned Office Bldg.	8,873.85	92,508.95
Total 6001 OPERATING EXPENSES	64,521.87	764,514.07
Total Expenses	\$120,729.73	\$1,428,619.60
NET OPERATING INCOME	\$ -3,225.18	\$ -269,270.53
NET INCOME	\$ -3,225.18	\$ -269,270.53

Nevada State Board of Professional Engineers and Land Surveyors

Balance Sheet As of May 31, 2026

	TOTAL
ASSETS	
Current Assets	
Bank Accounts	
1001 ASSETS	1,970,899.75
Total Bank Accounts	\$1,970,899.75
Other Current Assets	
1305 Prepaid Expense	10,406.49
1310 Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	\$15,411.49
Total Current Assets	\$1,986,311.24
TOTAL ASSETS	\$1,986,311.24
LIABILITIES AND EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 Accounts Payable	13,098.53
Total Accounts Payable	\$13,098.53
Credit Cards	
2027 Western Alliance Bank CC 3433	10,651.37
Total Credit Cards	\$10,651.37
Other Current Liabilities	
2001 Payroll Liabilities	29,469.72
4100 Deferred Revenue	989,656.75
Total Other Current Liabilities	\$1,019,126.47
Total Current Liabilities	\$1,042,876.37
Total Liabilities	\$1,042,876.37
Equity	
3510 Website Phase 2	30,000.00
3520 Data System Upgrade	175,000.00
3530 Electronic/Digital Pathway	175,000.00
3900 Retained Earnings	832,705.40
Net Income	-269,270.53
Total Equity	\$943,434.87
TOTAL LIABILITIES AND EQUITY	\$1,986,311.24

Nevada State Board of Professional Engineers and Land Surveyors

Balance Sheet As of May 31, 2026

	TOTAL
ASSETS	
Current Assets	
Bank Accounts	
1001 ASSETS	0.00
1051 First Indep. Bank - Operating	55,634.70
1052 First Indep. Bank - Payroll	2,659.58
1053 First Indep. Bank - Petty Cash	2,527.94
1054 First Indep. Bank - MMA	47,544.25
1055 First Indep. Bank - 24mo CD	453,773.94
1057 First Indep. Bank - 12mo CD	300,212.49
1058 First Indep. Bank - 24mo FlexCD	597,395.61
1059 First Independent Bank - 90 day CD	511,151.24
Total 1001 ASSETS	1,970,899.75
Total Bank Accounts	\$1,970,899.75
Other Current Assets	
1305 Prepaid Expense	10,406.49
1310 Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	\$15,411.49
Total Current Assets	\$1,986,311.24
TOTAL ASSETS	\$1,986,311.24
LIABILITIES AND EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 Accounts Payable	13,098.53
Total Accounts Payable	\$13,098.53
Credit Cards	
2027 Western Alliance Bank CC 3433	10,651.37
Total Credit Cards	\$10,651.37
Other Current Liabilities	
2001 Payroll Liabilities	0.00
2002 Accrued Benefits	29,469.72
Total 2001 Payroll Liabilities	29,469.72
4100 Deferred Revenue	989,656.75
Total Other Current Liabilities	\$1,019,126.47
Total Current Liabilities	\$1,042,876.37
Total Liabilities	\$1,042,876.37

Nevada State Board of Professional Engineers and Land Surveyors

Balance Sheet As of May 31, 2026

	TOTAL
Equity	
3510 Website Phase 2	30,000.00
3520 Data System Upgrade	175,000.00
3530 Electronic/Digital Pathway	175,000.00
3900 Retained Earnings	832,705.40
Net Income	-269,270.53
Total Equity	\$943,434.87
TOTAL LIABILITIES AND EQUITY	\$1,986,311.24

11. Compliance Officer Report

11.a. Compliance Report

11. a. Compliance Investigations

Currently there are four (4) cases to report on:

1. 20250054 – Unlawful practice.
Administrative Investigation complete, criminal investigation ongoing.
2. 20250055 – Failure to act as faithful agent to employer
Investigation tolled.
3. 20260003 – Reinstatement application disclosures.
Under investigation.
4. 20260009 – Failure to act as faithful agent to client.
Under investigation.

1. 20250054 – Unlawful practice.

Summary:

A complaint alleges the offering and providing of professional civil engineering services while not being licensed to do so and impersonating a licensee.

Status:

Decision & Order issued, criminal complaint submittal being filed.

2. 20250055 – Failure to act as a faithful agent to employer.

Summary:

A complaint alleges a civil engineer, while an employee of the complainant firm, disclosed confidential and proprietary business information and engaged in supplement employment without consent.

Status:

A litigation monitoring tolling agreement had been executed. Investigation on hold pending outcome of litigation.

3. 20260003 – Reinstatement application disclosures.

Summary:

Complaint relates to the failure to disclosure disciplinary actions by other states in an application for reinstatement of a Nevada civil engineering license.

Status:

Under investigation.

4. 20260009 – Failure to act as faithful agent to client.

Summary:

Complaint filed against civil engineer for the failure to complete a project in a timely manner.

Status:

Under investigation.

11.b. Probation Reports

11. b. Probation reports

Probation Summary:

Name	Case #	Status/Action	Date Ending
Dooley Riva, PE	20190001	Good Standing	October 10, 2029
Buckley Blew, PLS	20230004	Good Standing	August 15, 2026
Andrew Hammond, PE/PLS	20220009	Good Standing	February 15, 2029
Lyle Scott Mackay, PE	20240006	Good Standing	Open
Kevin Gutman, PE	20240003	Good Standing	December 15, 2026

Payment Summary:

Name	Case #	Paid	Remaining	Final Due Date
James Darrough, PLS	20250036	\$0.00	\$2,200.00	July 2, 2026

Robert “Dooley” Riva, PE 018231

Case Number: 20190001

Violation of NRS 625.520, NRS 625.565, NAC 625.510, and NAC 625.610

Mr Riva allowed his license to lapse on December 31, 2009, and continued to practice professional engineering with an expired license until self-reporting to the Board on January 10, 2019.

Mr Riva admitted, during the investigation in this matter, that he stamped, signed, and put false expiration dates for his license on the plans that he had submitted to reviewing agencies, as well as to his clients.

Mr Riva has maintained his California Professional Engineering license throughout this period from December 31, 2009, to the present. Mr Riva's California license is currently in good standing. A third-party competency review of a sampling of the thirty-seven (37) identified Nevada projects, that Mr Riva stamped while unlicensed has been completed, and his work was found to be competent.

NRS 625.410 states that the Board may take disciplinary action against a licensee for practicing after the license of the professional engineer has expired or has been suspended or revoked. NRS 625.520 also states that it is unlawful for any professional engineer to practice in a discipline of professional engineering in which the Board has not qualified him and for any person to use an expired license. Accordingly, NRS 625.565 makes it unlawful for any person to impress any documents with the stamp of a professional engineer after that person's license has expired. In addition, NAC 625.610 requires that licensees include the date of expiration of his or her license on the stamp or seal. Moreover, under NAC 625.510, licensees must be honest and impartial, and serve their employers, clients, and the public with devotion. Mr Riva has violated the aforementioned provisions by continuing to practice professional engineering for nine (9) years after the expiration of his license and knowingly falsifying expiration dates when signing and stamping plans for submission to building departments for permits.

NRS 625.410(5) authorizes the State Board to take disciplinary action against a licensee for a violation of any provision of NRS Chapter 625 or NAC Chapter 625. Further, pursuant to NAC 625.640(3)(b)(2) this matter may be resolved without a formal hearing by Stipulated Agreement.

Mr Riva and the State Board hereby stipulate to the following terms for the above-referenced violation(s):

1. Mr Riva's license shall be reinstated and suspended for ten (10) years immediately following entry of this Agreement, but with the suspension stayed and probation imposed for the duration of that time period.
2. The stay of Mr Riva's license suspension may be lifted by the State Board upon notice and the opportunity for Mr Riva to be heard should Mr Riva fail to abide by the terms hereof.
3. Mr Riva's successful completion of probation is expressly conditioned upon his full compliance with the following conditions of probation:
 - a. Mr Riva shall pay all of the State Board's legal and investigative costs associated with this matter, in the total amount of Two Thousand Three Hundred Fifty and No/100 Dollars (\$2,350.00), which includes One Thousand Three Hundred Fifty and No/100 Dollars (\$1,350.00) in legal fees and One Thousand and No/100 Dollars (\$1,000.00) for the cost for a third-party competency review of a sampling of the thirty-seven (37) projects stamped by Mr Riva while practicing without a license. This payment is due to the State Board within thirty (30) days of the State Board's acceptance and execution of this First Revised Stipulated Agreement.
 - b. Mr Riva shall pay an administrative fine to the State Board in the amount of Fifteen Thousand and No/100 Dollars (\$15,000.00), plus Two Hundred and No/100 Dollars (\$200.00) for each of the thirty-seven (37) projects lawfully stamped by Mr Riva, for a total of Twenty-Two Thousand Four Hundred and No/100 Dollars (\$22,400.00). Two Thousand Six Hundred Fifty and No/100 Dollars (\$2,650.00) of this amount is due to the State Board within thirty (30) days of the Board's acceptance and execution of this First Revised Stipulated Agreement. The balance thereof shall be due in five (5) equal annual installments of Three Thousand Nine Hundred Fifty and No/100 Dollars (\$3,950.00). The first (1st) due on or before one year of the State Boards acceptance and execution of this First Revised Stipulated Agreement, and the remaining four payment due on or before each subsequent anniversary thereof, through the fifth (5th) anniversary of the State Boards acceptance and execution of this First Revised Stipulated Agreement.
 - c. Mr Riva shall undertake and assume all costs associated with reviewing and re-stamping the drawings associated with the aforementioned projects that are on file with the appropriate building departments and provide the Board with sufficient proof thereof.

d. Mr Riva registering, paying for, and completing an advanced level ethics course with Texas Tech University Murdough Center for Engineering Professionalism, and providing proof of completion thereof to Board staff within one (1) year of the date of full execution of this First Revised Stipulated Agreement.

LAST PROBATION REPORTS DUE October 1, 2029

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Robert Dooley Riva PE/PLS #: 018231

EMPLOYER: Riva Engineering & Consulting

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: 2026-3-16 THROUGH 2026-5-15

CLIENT:

NAME: EVA HUANG

ADDRESS: evahuang@yahoo.com

CITY:

STATE:

ZIP CODE:

PROJECT:

NAME: 746 LAKEVIEW REMODEL/ADDITION

LOCATION OF PROJECT: 746 LAKEVIEW DRIVE

CITY:

ZEPHYR COVE

STATE:

NV

ZIP CODE:

89448

SIZE:

3395 SF

START DATE:

9.20.24

END DATE:

NA

STATUS OF PROJECT:

Construction Documents complete and issued to Douglas County

FEE PAID BY CLIENT:

\$13,050.00

SCOPE OF WORK:

DESIGN DEVELOPMENT AND CONSTRUCTION DOCUMENTS

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

STRUCTURAL DETAILING, ISSUE PROGRESS SET FOR TEAM REVIEW, UPDATE STRUCTURAL DOCUMENTS TO BE COMPLIANT WITH 2024 IBC, ISSUE FOR PERMIT SUBMITTAL, ADDRESS PLAN CHECK COMMENTS, ISSUE PLAN CHECK RESPONSE AND REVISED DOCUMENTS

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

MY NV LICENSE IS NOT EXPIRED

SIGNATURE: Robert D. Riva

DATE June 2, 2026

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Robert Dooley Riva PE/PLS #: 018231

EMPLOYER: Riva Engineering & Consulting

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: 2026-3-16 THROUGH 2026-5-15

CLIENT:

NAME: LISA KIRKMAN

ADDRESS: lisakirkman@gmail.com

CITY: STATE: ZIP CODE:

PROJECT:

NAME: KIRKMAN RENOVATION

LOCATION OF PROJECT: 342 BARRET DRIVE

CITY: KINGSBURY STATE: NV ZIP CODE: 89448

SIZE: 1910 SF ADD START DATE: SPRING 27 END DATE: NA

STATUS OF PROJECT: FEASIBILITY AND CONSULTATION

FEE PAID BY CLIENT: \$1000 RETAINER

SCOPE OF WORK:

FEASIBILITY AND MAPPING OF EXISTING FRAMING

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

COORDINATION WITH TEAM, SITE VISIT TO REVIEW EXISTING FRAMING AND DISCUSS
FEASIBILITY

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

MY NV LICENSE IS NOT EXPIRED

SIGNATURE: Robert D. Riva

DATE June 2, 2026

Buckley Blew, PLS 024520

Case Number: 20230004

Violation of NRS 625.410 (2), 625.340, NRS 625.350(2)(a); and NRS 329.140(1).

Mr Blew self-reported a disciplinary action imposed against his California professional land surveyor license by the California Board of Professional Engineers, Land Surveyors, and Geologists (the “California Board”) in his license renewal application.

CALIFORNIA BOARD DISCIPLINARY ACTION

The California Board action against Mr Blew was based on the following:

A) California Business and Professions Code (“Code”) § 8780(d) and § 8762(b)(4) and (c) for failing to file a record of survey within ninety (90) days of his survey of the following properties:

- 555 and 575 Market Street, San Francisco
- 1281 W. National Drive, Sacramento
- 1520 and 1620 W. National Drive, Sacramento
- 1534 N. Market Blvd. and 4201 Sierra Point Drive, Sacramento
- 1700 W. National Drive, Sacramento
- 3200-3298 Orange Grove Avenue, Sacramento
- 1401 Civic Court, Concord

B) Under Code § 8780(b) for negligence in the practice of land surveying, in that Mr Blew did not meet the standard of care for a licensed land surveying when he failed to file a record of survey for the aforementioned properties. In addition, for the properties located at 1520 and 1620 W. National Drive, Sacramento, at 1534 N. Market Blvd. and 4201 Sierra Point Drive, Sacramento, and at 1700 W. National Drive, Sacramento, Mr Blew was disciplined under Code § 8780(b) for negligence in the practice of land surveying, in that Mr Blew did not meet the standard of care for a licensed land surveying when he failed to set monuments.

C) Under Code § 8780(d) and § 8765(d) for failing to file a corner record for 8845 Washington Blvd., Roseville. In addition, Mr Blew was disciplined under Code § 8780(b) in that he was negligent in his practice of land surveying regarding 8845 Washington Blvd., Roseville.

D) Under Code § 8780(b) in that he was negligent and/or incompetent in the practice of land surveying in that the establishment of boundaries shown on Mr Blew’s ALTA/NSPS maps indicated a practice of using a minimum of unreferenced control points and using “record” information from a single direction to establish boundary lines. This practice is reasonably foreseeable to lead to gaps and overlaps in boundaries.

Based on the above Mr Blew stipulated with the California Board to the following violations: (1) failure to file a timely record of survey; (2) negligence in the practice of land surveying; (3) failure to file a corner report; and (4) incompetence in the practice of land surveying. Pursuant to the California Board Stipulation and Order, Mr Blew's license was revoked, but the revocation was stayed pending the successful completion of three (3) years probation, reimbursement of investigative costs in the amount of Twelve Thousand Six Hundred Thirteen and 75/100 Dollars (\$12,613.75), completion and passage of the California Laws and Board Rules examination, passage of a Board approved ethics course within one (1) year, and completion and passage of two (2) college-level Board approved land surveying courses.

NEVADA BOARD DISCIPLINARY ACTION

NRS 625.410 states that the Nevada State Board may take disciplinary action against a licensee for discipline by another state or territory if at least one of the grounds for discipline is the same or substantially equivalent to any ground under Nevada law.

The State Board does not have statutory authority to take disciplinary action against licensees for mere negligence. Thus, Mr Blew's cause for discipline due to his negligence does not constitute a violation of NRS 625.410(6).

Mr Blew's cause for discipline for failure to file a timely record of survey, however, is substantially equivalent to NRS 625.340, in which professional land surveyors shall "within 90 day after the establishment of points or lines, file . . . a record of survey relating to land boundaries and property lines." In addition, NRS 625.350 states that a record of survey must show, among other things, "[a]ll monuments found, set, reset, or replaced, describing their kind, size and location and giving other data relating thereto." NRS 625.350(2)(a).

Mr Blew was also disciplined for failing to file a corner record. This cause for discipline is substantially equivalent NRS 329.140, in which a "a surveyor shall complete, sign and record or cause to be recorded . . . a written record of the establishment or restoration or a corner The survey information must be recorded within 90 days after the survey is completed." NRS 329.140(1).

Finally, Mr Blew was disciplined for negligence and/or incompetence. NRS 625.410 states that the Board may take disciplinary action against a licensee for "[a]ny gross negligence, incompetency or misconduct in the practice of professional engineering as a professional engineer or in the practice of land surveying as a professional land surveyor." NRS 625.410(2).

Thus, since at least one of the grounds for discipline in California is substantially similar to a ground for discipline in Nevada, the State Board may take disciplinary action against Mr Blew.

NRS 625.410 states that the State Board may take disciplinary action against a licensee for discipline by another state or territory if at least one of the grounds for discipline is the same or substantially equivalent to any ground under Nevada law.

Pursuant to NAC 625.640(3)(b)(2), a disciplinary matter against a licensee may be resolved without a formal hearing by Stipulated Agreement. As such, Mr Blew and the State Board hereby stipulate to the following terms for the above-referenced violation(s):

1. Mr Blew's license shall be revoked following entry of this Agreement, but with revocation stayed and probation imposed for a term of three (3) years.
2. The licensee shall submit detailed bi-monthly probation reports to the Executive Director of the State Board, which shall report any work completed in Nevada during the previous two (2) month period. A report shall be filed even if no work was performed in Nevada during the previous two (2) month period. The first report shall be due within two (2) months of the effective date of this Stipulated Agreement. Each report shall include a copy of the contract executed for any work in Nevada, including the scope of work detail.
3. Mr Blew shall provide the State Board with proof of fulfilling the California Stipulated Agreement obligations.

LAST PROBATION REPORTS DUE August 15, 2026

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Buckley Blew

PE/PLS #: 024520

EMPLOYER: Blew & Associates, P.A.

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: 03/20/26

THROUGH: 05/19/26

CLIENT:

NAME: NA

ADDRESS: NA

CITY: NA

STATE: NA

ZIP CODE: NA

PROJECT:

NAME: NA

LOCATION OF PROJECT: NA

CITY: NA

STATE: NA

ZIP CODE: NA

SIZE: NA

START DATE: NA

END DATE: NA

STATUS OF PROJECT: NA

FEE PAID BY CLIENT: NA

SCOPE OF WORK:

NA

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

NA

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

NA

SIGNATURE:



DATE: 05/29/26

Andrew Hammond, PE/PLS 021191

Case Number: 20220009

Violation of NRS 625.410 (2), and NAC 625.530 (1) and (5).

In or around January 2019, the complainant (client) reached out to Element Engineering (Mr Hammond's firm) via Yelp in search of a professional to help adapt and engineer house plans that had been found online. Mr Hammond replied to the inquiry via Yelp and indicated he could complete the house plans in about four (4) to five (5) weeks.

The client engaged Mr Hammond for the project in late 2019. The project included various tasks, such as surveying, site plan, grading plan, septic, structural design and calculations, and electrical plan. At the end of December 2019, the client made a 50% down payment on the house plans for the initial survey and topography. In late 2019, Mr Hammond recommended a lot merger and was retained in or around July 2020 to perform that service. Throughout his engagement with the client, Mr Hammond communicated timelines and completion dates, but failed to meet these communicated deadlines. Mr Hammond did not make the initial submission for permits until August 22, 2021. Washoe County rejected this initial submittal as incomplete with requirements noted. Mr Hammond then had to resubmit the project three (3) more times due to further comments from Washoe County. By the time the client submitted the Complaint, Mr Hammond still had not obtained the permits for his plans. Regarding the lot merger, Mr Hammond erroneously submitted a Boundary Line Adjustment (BLA) to Washoe County in February 2021. Washoe County rejected this BLA and advised Mr Hammond that a Reversion to Acreage (RTA) map was required. In March 2021, Mr Hammond submitted an RTA, but did not make a payment to Washoe County for RTA review. In May 2021, Washoe County emailed Mr Hammond regarding RTA submittal errors and payment for review of the RTA. In June 2021, Washoe County sent an example RTA map for reference and information for Mr Hammond to correct his March 2021 submittal. In July 2021, Mr Hammond submitted payment for RTA application and review. In August 2022, Washoe County approved the RTA map for recording after correcting errors that Mr Hammond made on the RTA map, such as including unneeded signature lines for utility companies that did not serve the client's property. On or about January 10, 2023, Mr Hammond refunded the Seven Thousand and No/100 Dollars (\$7,000.00) that the client paid Mr Hammond for services.

VIOLATIONS and DISCIPLINARY ACTION

Pursuant to NAC 625.530(1), a professional engineer or land surveyor shall "[a]ct in professional matters as a faithful agent or trustee for each employer or client." Here, Mr Hammond failed to act as a faithful agent. Over thirty (30) months have passed from the start

of work, but no permit had been issued at the time the Complaint was filed. Mr Hammond promised the client completion deadlines, but continually missed them. Mr Hammond had never done an RTA map and admits that the timeline to complete it was unreasonable.

Pursuant to NAC 625.530(5), a professional engineer or land surveyor shall “[u]ndertake only those engineering or land surveying assignments for which he or she is qualified and engage or advise the employer or client to engage specialists and cooperate with them whenever the employer’s or client’s interests are served best by such an arrangement.” Here, Mr Hammond erroneously submitted a boundary line adjustment rather than a reversion to acreage map. The time taken and the assistance required by the Washoe County staff indicates Mr Hammond’s underqualification for the assignment undertaken. Relating to the engineering, his submissions for permitting required extra comments and review from Washoe County. Mr Hammond submitted his plans four (4) times over the course of one (1) year.

Based on the foregoing, Mr Hammond stipulates that he violated NRS 625.410(2) and NAC 625.530(1) by failing to meet deadlines he promised his client and, thus, prolonging the project. In addition, Mr Hammond stipulates that he violated NAC 625.530(5) by undertaking a project for which he was unqualified, and not seeking to engage specialists to assist.

NRS 625.410(5) provides authority for the State Board to administer discipline in Nevada for a violation of any NRS Chapter 625 statute and/or any regulation adopted by the State Board. Further, pursuant to NAC 625.640, a disciplinary matter may be resolved without a formal hearing by a Stipulated Agreement.

To that end, to resolve Complaint Number 20220009 now pending, Mr Hammond and the State Board resolve this matter on the following basis:

- 1.) Mr Hammond’s Nevada license shall be suspended for twenty-four (24) months following entry of this Agreement, but with the suspension stayed and probation imposed for the duration of that time period.
 - a.) On a bi-monthly basis, Mr Hammond shall submit, to the State Board, a probation report to include any copies of executed contracts for any project or client that Mr Hammond retains during the period of his probation.
 - b.) Mr Hammond has reimbursed the complainant a total amount of Seven Thousand and No/100 Dollars (\$7,000.00) for design and mapping fees paid to Mr Hammond (One Thousand Nine Hundred Fifty and No/100 (\$1,950.00) for mapping and Five Thousand Fifty and No/100 Dollars (\$5,050.00) for house design), which is satisfactory in lieu of an administrative fine.

c.) Mr Hammond shall pay legal and investigative costs to the State Board a total of One Thousand Seven Hundred and No/100 Dollars (\$1,700.00) within ninety (90) days of acceptance and execution of this Agreement by the State Board.

d.) Within ninety (90) days of acceptance and execution of this Agreement by the State Board, Mr Hammond shall have any land surveying services that he has performed since November 1, 2022, reviewed by a licensed Nevada Professional Land Surveyor selected by the State Board. Further, any additional land surveying services that Mr Hammond performs in Nevada through the end of the term of his probation hereunder, shall be reviewed by a licensed Nevada Professional Land Surveyor selected by the State Board. The selected Professional Land Surveyor shall be independent of, and have no conflict of interest with, Mr Hammond, and will provide the State Board an assessment of competency for every professional land surveyor project done by Mr Hammond during the above-designated time period. Mr Hammond shall bear the cost and expense of the selected Professional Land Surveyor's services.

Supplement to Stipulated Agreement

Case Number: 20220009

Violation of NRS 625.410(2) and NAC 625.530(5)

On or about January 24, 2024, the State Board approved a Stipulated Agreement ("2024 Stipulated Agreement") with Mr Hammond to resolve a disciplinary action against Mr Hammond. Thereunder, Mr Hammond stipulated to certain facts as being truthful, as well as to certain disciplinary conditions.

The State Board is in receipt of information indicating that concerns have arisen resulting from the disciplinary conditions set forth in the 2024 Stipulated Agreement. To address those concerns, the State Board and Mr Hammond hereby enter into this Supplemented Stipulated Agreement, pursuant to which Mr Hammond stipulates to the following facts as truthful.

Pursuant to the 2024 Stipulated Agreement, Mr Hammond admitted to violations of NRS 625.410(2), NAC 625.530(1), and NAC 625.530(5) by failing to meet client deadlines and by undertaking a project for which he was not qualified in the field of land surveying. The 2024 Stipulated Agreement provided that Mr Hammond's license would be suspended for twenty-four (24) months, but with such suspension stayed and probation imposed for the duration of that time period. As a condition of his probation, Mr Hammond was required to submit any land surveying services performed after November 1, 2022 for review by a licensed Nevada Professional Land Surveyor selected by the State Board. The selected Professional Land

Surveyor was to provide the State Board with an assessment of competency, based upon said review.

In or around December 2023, Mr Hammond was retained to divide a property north of Reno into two parcels. Mr Hammond drafted a proposed parcel map to that effect and submitted it to the Washoe County Survey team within Washoe County Engineering Division for technical map review. The Map Review Office noted over thirty (30) deficiencies with Mr Hammond's proposed map and rejected it, stating that the project could not be completed until a revised submittal was provided.

Mr Hammond then submitted the proposed map, along with the comments from the Washoe County Map Review Office, to a licensed land surveyor selected by the State Board to review Mr Hammond's work pursuant to the 2024 Stipulated Agreement ("PLS Reviewer"). The PLS Reviewer agreed with "all" of the deficiencies noted by the Map Review Office, as well as with their conclusion to reject Mr Hammond's proposed map. The PLS Reviewer also noted that Mr Hammond's proposed map had several other deficiencies pertaining to linetypes, land boundary establishments, and map references, and that the map did not comply with several County Ordinance requirements. Based on these issues, the PLS Reviewer concluded that "Mr Hammond lacks the minimum competency expected of a licensed Professional Land Surveyor in the State of Nevada".

VIOLATIONS and DISCIPLINARY ACTION

Pursuant to NRS 625.410(8) the State Board may take disciplinary action against a licensee for "[f]ailing to comply with an order issued by the Board." Pursuant to NAC 625.530(5), a professional engineer or land surveyor shall "[u]ndertake only those engineering or land surveying assignments for which he or she is qualified and engage or advise the employer or client to engage specialists and cooperate with them whenever the employer's or client's interests are served best by such an arrangement." Pursuant to the 2024 Stipulated Agreement, Mr Hammond's work product was subject to the review of an independent Nevada licensed professional land surveyor. Mr Hammond violated NAC 625.530(5) by submitting a proposed parcel map to the Washoe County Survey team within Washoe County Engineering Division Map Review Office that contained over thirty separate deficiencies and that was rejected by the Map Review Office. As a result of the independent review conducted pursuant to the 2024 Stipulated Agreement, the PLS Reviewer agreed that the proposed map was deficient and, further, concluded that Mr Hammond lacks the "minimum competency" expected of a Professional Land Surveyor.

NRS 625.410(2) provides authority for the State Board to administer discipline in Nevada for any gross negligence, incompetency or misconduct in the practice of professional engineering as a professional engineer and in the practice of professional land surveying as a professional land surveyor. Further, NRS 625.410(5) provides authority for the State Board to administer discipline in Nevada for a violation of any regulation adopted by the Board.

Based on the foregoing, Mr Hammond stipulates that he violated NRS 625.410(2) and NAC 625.530(5) by undertaking a project for which he was unqualified, providing work that was not minimally competent, and not seeking to engage specialists to assist.

Pursuant to NAC 625.640, a disciplinary matter may be resolved without a formal hearing by a Stipulated Agreement. To that end, pursuant to the State Board's ongoing oversight pursuant to the 2024 Stipulated Agreement, as well as the additional bases for discipline that have arisen thereunder, Mr Hammond and the State Board resolve to supplement the conditions placed in the 2024 Stipulated Agreement, as follows:

1. The stay of the suspension of Mr Hammond's Nevada Professional Land Surveying License, as set forth in the 2024 Stipulated Agreement, is hereby lifted, and Mr Hammond's license to practice professional land surveying shall be suspended following entry of this Agreement. Mr Hammond can be subject to additional discipline, upon notice and the opportunity to be heard, should Mr Hammond fail to abide by the terms hereof. The suspension of Mr Hammond's professional land surveying license shall continue, and Mr Hammond will not be able to apply for renewal or reinstatement of said license after expiration, until Mr Hammond complies with the following terms:

(a) Mr Hammond satisfying the obligations listed under 1(b) and 1(c) of the 2024 Stipulated Agreement;

(b) Mr Hammond taking and passing the Nevada State Specific Professional Land Surveyor Examination ("NSSPLSE");

(c) Following receipt of a passing score on the NSSPLSE, Mr Hammond appearing before the State Board for an oral interview to determine areas of competency within the discipline of professional land surveying, by which he will abide.

(d) Mr Hammond paying legal and investigative costs to the State Board a total of Three Thousand Two Hundred and Ninety Dollars (\$3,290.00) within ninety (90) days of acceptance and execution of this Agreement by the State Board.

Stipulated Agreement Arising from Oral Interview

Case Number: 20220009

Mr Hammond has complied with the terms of the 2024 Stipulated Agreement and Supplemental Stipulated Agreement. However, as a component of the Supplemental Stipulated Agreement, Mr Hammond, on July 17, 2025, appeared “before the State Board for an oral interview to determine areas of competency within the discipline of professional land surveying, by which he will abide.” As a result of said oral interview, the State Board found various concerns with Mr Hammond’s competency in the discipline of professional land surveying.

To that end, pursuant to the State Board’s ongoing oversight pursuant to the 2024 Stipulated Agreement, and subsequent Supplement thereto, Mr Hammond and the State Board resolve to address the concerns of the State Board by stipulating to the following conditions.

1. Mr Hammond’s Nevada license to practice professional land surveying shall remain suspended following entry of this Agreement. Mr Hammond can be subject to additional discipline, upon notice and the opportunity to be heard, should Mr Hammond fail to abide by the terms hereof. The suspension of Mr Hammond’s professional land surveying license shall continue, and Mr Hammond will not be able to apply for renewal or reinstatement of said license after expiration, until Mr Hammond complies, to the satisfaction of the State Board, with the following terms:

(a) Mr Hammond shall coordinate with State Board staff to engage a Nevada licensed Professional Land Surveyor that is approved by the State Board to provide land surveying mentorship (“PLS Mentor”). The PLS Mentor will be provided with a State Board produced outline of areas for skill development. Mr Hammond shall be responsible for all costs relating to time and expense for the services of the PLS Mentor.

(b) Mr Hammond shall research, prepare, and present a White Paper to the State Board that addresses and evidences an understanding of the following:

- i. Boundary retracement and boundary evidence evaluations.
- ii. The importance of the monumentation on adjoining parcels in any mapping effort.
- iii. The complexities related to mapping adjacent to highways, railroads, and riparian features.

(c) Present a work plan outlining processes in performing mapping.

(d) Present a quality control (“QC”) plan for his field measurement procedures.

2. Following completion and acceptance/approval by the State Board of all items in Section 1, the stay of suspension will be reinstated on Mr Hammond's Nevada PLS license, and probation will be imposed with the following terms:

(a) Bi-monthly probation reports to be submitted for any Nevada work, including copies of executed contracts and specific work plan for each project (see 1.(c) above)

(b) Work product to be reviewed by the PLS Mentor prior to agency submittal or release to client.

(c) Assessment by the PLS Mentor of Mr Hammond's progress (skill development) to be included with each bi-monthly probation report.

(d) Probation period of thirty-six (36) months, but can be revised based on progress or lack of progress as reported by the PLS Mentor.

LAST PROBATION REPORTS DUE February 15, 2029

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUMMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE:

DATE:

Lyle Scott Mackay, PE 015131

Case Number: 20240006

Violation of NRS 625.410 (4)

On October 4, 2001, Mr Mackay was licensed as a professional engineer in Nevada, via comity, and he maintained his licensure in Nevada on-and-of through December 31, 2017.

On March 18, 2016, Mr Mackay was found guilty, pursuant to plea, of attempted aggravated sexual abuse of a child, a first-degree felony, in the 3rd District Court, West Jordan, Utah.

On April 5, 2016, the Utah Board approved a Stipulation and Order, whereby Mr Mackay voluntarily surrendered his Utah PE license related to his admission of sexually abusing an eleven (11) year old male in Utah, and Mr Mackay was prohibited from applying for re-licensure in Utah for five (5) years therefrom.

On July 22, 2022, a Stipulation and Order was entered by the Utah Board with Mr Mackay, granting him a probationary professional engineering license, subject to various conditions to remain in place so long as he is registered on the Utah Sex Offender Registry.

On September 7, 2022, Mr Mackay submitted an application for reinstatement of his professional engineering license in Nevada, which included a disclosure of his felony conviction and corresponding disciplinary action in Utah. The disclosure of conviction and disciplinary action in Utah was missed in the Nevada license reinstatement application review, and Mr Mackay's professional engineering license was reinstated without sanction or limitation¹.

On December 31, 2023, Mr Mackay's professional engineering license with Nevada expired.

On April 1, 2024, a "Settlement Agreement, Stipulation, and Order for Reissuance of PE License Subject to Conditions" was entered by the Wyoming Board Engineers and Professional Land Surveyors ("Wyoming Board"), attached hereto as Exhibit "B" and incorporated herein by this reference, granting Mr Mackay a conditional professional engineering license, with conditions to remain in place until Mr Mackay's Utah professional engineering license is fully reinstated without conditions/restrictions.

On May 6, 2024, Mr Mackay applied for late renewal of his Nevada professional engineering license, disclosing his Wyoming discipline, which is now pending.

Application for late renewal

First, Mr Mackay allowed his Nevada professional engineering license to lapse on December 31, 2023, and he applied for late renewal thereof on May 6, 2024, which is now pending. For licensing, NRS 625.183 requires, in relevant part, that an applicant “[b]e of good character and reputation.” Without the need for elaboration, Mr Mackay’s conviction of a felony, and the nature of the underlying crime, does not satisfy the requirement “of good character and reputation”.

As such, even though Mr Mackay was inadvertently approved for licensure in Nevada in 2022, his latest application for late renewal may be denied. This Stipulated Agreement allows for conditional approval of said late renewal, pursuant to terms hereinafter set forth.

Reciprocal Discipline

NRS 625.410 states that the State Board may take disciplinary action against a licensee for discipline by another state or territory, if at least one of the grounds for discipline is the same or substantially equivalent to any ground under Nevada law.

The Utah Board imposed discipline, via the Stipulation and Order attached hereto as Exhibit “A”, upon Mr Mackay for “unprofessional conduct”, as specifically defined under Utah Code Ann. § 58-1-501(2)(c), which reads” “engaging in conduct that results in conviction, a plea of nolo contendere, or a plea of guilty or nolo contendere which is held in abeyance pending the successful completion of probation with respect to a crime of moral turpitude or any other crime that, when considered with the functions and duties of the occupation or profession for which the license was issued, bears a substantial relationship to the licensee’s or applicant’s ability to safely or competently practice the occupation or profession”.

Nevada’s NRS 625.410 (4) provides grounds for discipline when there is a “[c]onviction of a plea of nolo contendere to any crime an essential element of which is dishonest or which is directly related to the practice of engineering or land surveying”.

Mr Mackay’s conviction in Utah, as per the Stipulation and Order from the Utah Board, “...when considered with the function and duties of [his] license classification, bears a substantial relationship to [his] ability to safely and/or competently operate as a licensee.” Utah’s and Nevada’s grounds for discipline based upon conviction of a crime that relates to the practice of engineering are substantially similar, and, thus, pursuant to NRS 625.410(4), form the basis for the Nevada State Board to impose discipline on Mr Mackay.

Pursuant to NAC 625.640(3)(b)(2), a disciplinary matter against a licensee may be resolved without a formal hearing by Stipulated Agreement. As such, Mr Mackay and the Nevada State Board hereby stipulate to the following terms for the above-referenced violation(s):

- 1.) Mr Mackay's Nevada professional engineering license shall be renewed following entry of this Agreement, but immediately suspended, with the suspension stayed and probation imposed for the duration of his requirement to register on any Sex Offender Registry in any State of the United States.
- 2.) Mr Mackay shall not work in any occupied residences or any worksite where a minor is present.
- 3.) Mr Mackay shall provide a copy of this Stipulated Agreement, once executed by the Nevada State Board, to any employer he has for the duration of his probation hereunder. Mr Mackay shall provide immediate written notice to the Nevada State Board should he become self-employed or not be employed by a general contractor or an engineering firm, and the Board may, upon a duly noticed hearing on the matter, impose such requirements as deemed appropriate to address concerns that arise from Mr Mackay not having employer oversight.
- 4.) Mr Mackay shall provide the Nevada State Board a copy of the quarterly reports provided by his employer to the Utah Board.
- 5.) Mr Mackay must comply with all requirements imposed by both the Utah Board and Wyoming Board Stipulation and Orders.
- 6.) Mr Mackay shall timely submit detailed bi-monthly probation reports to the Executive Director of the State Board, which shall report any work completed in Nevada during the previous two (2) month period. A report shall be filed even if no work was performed in Nevada during the previous two (2) month period. The first report shall be due within two (2) months of the effective date of this Stipulated Agreement. Each report shall include a copy of the contract executed for any work in Nevada, including the scope of work detail.
- 7.) The stay of Mr Mackay's license suspension may be lifted by the State Board, upon notice and the opportunity for Mr Mackay to be heard, should Mr Mackay fail to abide by the terms hereof.
- 8.) Mr Mackay's successful completion of probation is expressly conditioned upon his full compliance with the following conditions of probation:
 - (a) Mr Mackay shall obey all laws and regulations related to the practices of professional engineering and professional land surveying;
 - (b) Mr Mackay shall provide the Nevada State Board with proof of fulfilling the Utah and Wyoming Stipulation and Orders.

LAST PROBATION REPORTS DUE – indefinite probation

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: L. Scott Mackay PE/PLS #: 015131

EMPLOYER: Forearm Construction, LLC

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Apr 1, 2026 THROUGH: May 31, 2026

CLIENT:

NAME: No Projects in Nevada

ADDRESS: n/a

CITY: n/a STATE: n/a ZIP CODE: n/a

PROJECT:

NAME: No Projects in Nevada

LOCATION OF PROJECT: n/a

CITY: n/a STATE: n/a ZIP CODE: n/a

SIZE: n/a START DATE: n/a END DATE: n/a

STATUS OF PROJECT: n/a

FEE PAID BY CLIENT: n/a

SCOPE OF WORK:

n/a

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

n/a

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

n/a

SIGNATURE:  DATE: June 15, 2026

Kevin Gutman, PE 028002

Case Number: 20240003

Violation of NAC 625.530 (1) and (8)

In March 2022, Mr Gutman was hired by Mr Bell as a full-time employee of HCE. On March 14, 2022, Mr Gutman signed HCE's handbook agreeing to the terms of employment, which prohibits employees from "moonlighting" or obtaining supplemental employment as an engineer without the express approval of the President of the company.

Mr Gutman worked in-office for the first thirty days of his employment with HCE and then moved into a remote status. According to his complaint later submitted to the State Board, Mr Bell noticed that Mr Gutman's work performance was inconsistent, that he was difficult to reach, and that he often uploaded work product during nighttime and early morning hours. After Mr Gutman missed a deadline in January 2024, Mr Bell began researching Mr Gutman's online professional profile and discovered that he was listed as a Senior Project Engineer at an engineering firm with offices in Colorado and New Mexico.

Mr Bell then contacted the firm and confirmed that Mr Gutman had been employed as a full-time mechanical engineer since June 2022. On January 25, 2024, Mr Bell and Mr Gutman had an online video conference. Mr Bell raised the issue of Mr Gutman's inconsistent work performance and asked if Mr Gutman was working for another company. Mr Gutman stated he was having a difficult week due to personal reasons but denied that he was employed with another engineering company. Mr Bell then terminated Mr Gutman immediately.

Subsequently, Mr Bell filed a complaint with the State Board concerning Mr Gutman. In a letter to the State Board responding to Mr Bell's complaint, Mr Gutman admitted to working for two different engineering firms between June 2022 and January 2024, but he stated that he was not aware of HCE's policy prohibiting supplemental employment. He also noted that he was no longer employed by the other firm. The State Board contacted Mr Gutman's other former employer and confirmed that Mr Gutman had been terminated in late January 2024 for lack of performance.

VIOLATIONS and DISCIPLINARY ACTION

NAC 625.530(1)1 provides that a professional engineer shall "[a]ct in professional matters as a faithful agent or trustee for each employer or client." Here, Mr Gutman failed to act as a faithful agent of HCE by obtaining supplemental employment as a professional engineer without the permission of HCE.

NAC 625.530(8) provides that a professional engineer “shall, [w]hile employed, not engage in supplementary employment or consulting practice except with the consent of the employer.” Here, Mr Gutman violated this provision by obtaining employment with the other firm during his employment with HCE without securing HCE’s consent.

Under NRS 625.410(8),² the State Board may take disciplinary action against a licensed engineer for “[a] violation of any provision of this chapter or regulation adopted by the Board” Pursuant to NAC 625.640,³ a disciplinary matter may be resolved by Stipulated Agreement without conducting a formal hearing. To that end, to resolve Complaint No. 20240003 now pending, Mr Gutman and the State Board stipulate that:

1. Mr Gutman’s Nevada license shall be suspended for twenty-four (24) months following the entry of this Agreement, but such suspension shall be stayed and probation imposed for the duration of that time period. The stay of Mr Gutman’s suspension may be lifted by the State Board, and Mr Gutman may be subject to additional discipline, upon notice and the opportunity to be heard, should he fail to abide by the terms of this Revised Stipulated Agreement. Mr Gutman’s successful completion of

probation is expressly conditioned upon his full compliance with the following conditions:

- a. Mr Gutman shall obey all laws and regulations related to the practices of professional engineering and professional land surveying;
- b. Mr Gutman shall timely submit, once every two (2) months, detailed probation reports to the Executive Director of the State Board, which shall report any work completed in Nevada during the previous two-month period. A report shall be filed even if no work was performed during the previous period. The first report shall be due within two (2) months of the effective date of this Revised Stipulated Agreement.
- c. Mr Gutman shall provide a copy of this Revised Stipulated Agreement to any employer in the professional engineering field that Mr Gutman is employed by during the course of his probation.
- d. Mr Gutman shall pay, within six (6) months of acceptance and execution of this Agreement, Two Thousand Two Hundred Eighty-Seven and 50/100 Dollars (\$2,287.50) to the State Board as reimbursement of legal expenses incurred by the State Board in this matter.
- e. Mr Gutman shall, within one (1) year of the effective date of this Revised Stipulated Agreement, successfully complete an intermediate level ethics course with Texas Tech

University and shall submit proof of completion to the Board within sixty (60) days of completion of the course.

LAST PROBATION REPORTS DUE December 15, 2026

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Kevin Gutman PE/PLS #: 028002

EMPLOYER: -

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: 04-05-2026 THROUGH: 06-04-2026

CLIENT:

NAME: N/A

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME: N/A

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

No work completed in the State of Nevada, for the probation period between 04-05-2026 and 06-04-2026.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

N/A

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

N/A

SIGNATURE: DATE: 06-10-2026

12. Board Counsel Report

13. Proposed Revision to the Board Rules of Practice

**NEVADA STATE BOARD OF PROFESSIONAL ENGINEERS
AND
LAND SURVEYORS RULES OF PRACTICE**

Updated as of January 15, 2026

RULES OF PRACTICE

In accordance with NRS 233B.050, the Nevada State Board of Professional Engineers and Land Surveyors (the "Board") adopts the following rules of practice.

PROCEDURES FOR HANDLING COMPLAINTS AGAINST LICENSEES

I. Initial Complaint:

a. Upon the receipt of a complaint against a licensee, applicant or third party, a determination shall be made by a Board compliance officer ("Compliance Officer") following consultation with the Board's executive director ("Executive Director"), if necessary, as to whether the complaint sets forth adequate grounds for the imposition of discipline by the Board (See NRS 625.410).

b. In conjunction with the review of the complaint, Compliance Officer may return the Board's complaint form to the person filing the complaint ("Complainant") and request Complainant to more fully set forth the nature of the complaint, the identity of Complainant and/or the identity of the person against whom the complaint is made ("Respondent"). A copy of the complaint form currently used by the Board is attached as Exhibit "1" to these Rules of Practice and Procedure.

c. When the Board receives the completed complaint form that the Compliance Officer determines sets forth grounds adequate for the possible imposition of discipline, Compliance Officer shall forward a copy of the complaint to Respondent and request a detailed written response to the complaint. Respondent is required to respond to Compliance Officer's request within thirty (30) days (See NRS 625.410(9)).

d. Upon receipt of the Respondent's response to the complaint, Compliance

Officer, with the assistance of Executive Director (and/or the Board's legal counsel if necessary), shall make an initial determination as to whether it is probable that a violation of the statutes, regulations or rules governing the practice of professional engineering or land surveying in the State of Nevada has occurred.

e. Compliance Officer shall make a recommendation to Executive Director concerning the manner in which the complaint should be handled (e.g., dismissal, stipulated agreement, referral to an advisory committee, formal disciplinary hearing, or otherwise). (See NAC 625.640).

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f. The Executive Director shall select an appropriate Board member ("Board Liaison") to review the matter with Executive Director, consider the recommendation made by the compliance staff and, if necessary, discuss the matter with the Board's legal counsel.

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g. If, during the course of the investigation and/or review of the matter by the Executive Director &/or Board Liaison, it comes to light that the facts and/or allegations forming the basis for disciplinary proceedings are, likewise, at issue in pending litigation involving the Respondent &/or the Complainant, and a delay would pose no immediate threat to the health, safety or welfare of the general public, the Executive Director, upon affirmation from the Board Liaison, may offer the Respondent a written agreement to toll the disciplinary matter (including the corresponding timelines and time limitations thereof), until the pending litigation reaches finality. If accepted by Respondent, the disciplinary process shall be tolled pursuant to the terms of the written agreement.

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h. Executive Director and Board Liaison will decide whether to: dismiss the action; refer the matter to an advisory committee; proceed with disciplinary proceedings; or request

that additional information be provided (See NRS 2338 and NAC 625.640).

(1) If the matter is dismissed, Complainant and Respondent shall be advised in writing that the complaint has been dismissed, and Executive Director shall report the dismissal at the next regularly scheduled meeting of the Board.

(2) If Executive Director and Board Liaison decide to have the matter heard by an advisory committee, Compliance Officer shall follow the procedures necessary to establish an advisory committee and shall set a time and place for the committee to review the matter (See NAC 625.646).

(3) If Executive Director and Board Liaison decide that the matter warrants going forward with disciplinary proceedings, Executive Director and Board Liaison shall develop terms acceptable to them for the matter to be resolved by stipulated agreement between the Board and Respondent, which the Board legal counsel shall incorporate into a stipulated agreement and forward to Respondent for consideration. A form example stipulated agreement is attached hereto as Exhibit "2". If Respondent declines the proposed stipulated agreement, Executive Director and Board Liaison shall have the discretion to direct Board's legal counsel to prepare a formal disciplinary complaint and set the matter for hearing. If Respondent accepts the proposed stipulated agreement, it shall be submitted to the Board for consideration at its next meeting, or at such Board meeting thereafter as time permits. The stipulated agreement shall not be effective unless and until approved by the Board.

(4) If Executive Director and Board Liaison decide to go forward with a formal disciplinary complaint, or should the Board decline to accept a proposed stipulated agreement and order the matter be set for hearing, Executive Director shall set a hearing date and

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direct the Board's legal counsel to prepare a formal disciplinary complaint.

i. ~~The Board, acting through its Chairperson or Executive Director, may issue~~ subpoenas requiring the attendance of an individual or the production of requested documents (See NRS 625.440).

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II. Formal Disciplinary Complaint:

a. The Board's legal counsel shall prepare a formal disciplinary complaint setting forth the specifics of the complaint and the rules, statutes or regulations which the Respondent has allegedly violated. A form example disciplinary complaint is attached as Exhibit "3". The Board's legal counsel shall prepare the notice of the hearing on the formal disciplinary complaint. A form example notice of hearing is attached as Exhibit "4".

The Board's legal counsel shall forward by certified mail, return receipt requested, the formal complaint and notice of the hearing to Respondent, together with a letter advising the Respondent of his or her certain rights and obligations, as well as the requirement for Respondent to provide a list of witnesses and exhibits to Board's legal counsel at least ten (10) calendar days before the hearing. A form example letter to Respondent is attached as Exhibit "5".

b. Respondent may request a continuance of the scheduled hearing. Generally, Executive Director will grant one continuance of a scheduled disciplinary hearing. All other requests for continuances will be denied unless Respondent can demonstrate clear and convincing grounds for the granting of a second continuance.

c. Prior to the hearing, Executive Director may discuss with Board Liaison and the Board's legal counsel the parameters within which the disciplinary complaint may be

settled. If settlement is pursued, the Board's legal counsel shall discuss possible settlement of the disciplinary action with Respondent. If it appears that the complaint can be resolved by stipulated agreement, the Board's legal counsel shall draft a proposed Stipulation and Decision to resolve the formal disciplinary complaint.

d. The proposed Stipulation and Decision shall be submitted to the Board at its next meeting. The Stipulation and Decision is not effective unless and until the Stipulation and Decision is approved by the Board at a public meeting.

e. Prior to the hearing, if a Stipulation and Decision is not entered, the Board's legal counsel shall attempt to enter into a stipulation of proposed list of exhibits with Respondent to be admitted at the hearing.

III. Procedures Governing a Formal Disciplinary Hearing:

a. The hearing may be held before the Board or, at the discretion of the Executive Director and Board Liaison, delegated to be held before a hearing officer of the Board.

b. Respondent is entitled to be represented by an attorney licensed in the State of Nevada.

c. In a disciplinary hearing before the Board, the Chairperson of the disciplinary hearing shall request all Board members to advise whether they have a conflict which requires them to recuse themselves from participating in the hearing.

d. In a disciplinary hearing before the Board, Board Liaison in a matter shall recuse him or herself from participating in the hearing.

e. The Board's legal counsel shall mark and place into evidence all exhibits which support the allegations contained in the complaint. Respondent may state his/her objections,

if any, to the exhibits and may submit additional exhibits which are relevant to the charges set forth in the complaint or to the defenses raised in Respondent's answer to the complaint.

f. In a disciplinary hearing before the Board, the Board Chairperson, or a Board member designated by the Board Chairperson, shall chair the disciplinary hearing.

g. The Chairperson or hearing officer, as the case may be, of the disciplinary hearing shall make all rulings concerning the admission of evidence. The Chairperson or hearing officer, as the case may be, of the disciplinary hearing may accept into evidence those exhibits that have been marked and offered by the Board's legal counsel and/or Respondent.

h. The Board's legal counsel and Respondent may make a short opening statement. Thereafter, the Board's legal counsel shall call witnesses to testify concerning the allegations contained in the complaint. Respondent may cross-examine the witnesses and may call witnesses to testify on his or her behalf. Board's legal counsel may cross-examine Witnesses called by Respondent. The Board Chairperson or designee shall have the discretion as to whether counsel shall have the right to re-direct and/or re-cross examination.

i. Formal rules of evidence do not apply. (See NRS 2338.123).

j. After the evidence, exhibits and testimony have been submitted, Respondent may make a closing argument. The Board's legal counsel does not make a closing argument and does not make any recommendation to the Board or hearing officer, as the case may be, concerning the manner in which the disciplinary complaint should be resolved, but it may clarify to the Board or hearing officer, as the case may be, the various counts asserted against Respondent.

k. After the evidence has been submitted and Respondent has finished his or her closing statement, the Chairperson or hearing officer, as the case may be, of the disciplinary

hearing shall summarize the issues to be decided or addressed by the Board or hearing officer, as the case may be. The alleged violations must be proven by substantial evidence.

l. For a disciplinary hearing before a hearing officer, the hearing officer shall make findings and recommendations, which shall be presented to the Board to:

- (1) Approve, with or without modification,
- (2) Reject and remand the matter to the hearing officer;
- (3) Reject and order a hearing de novo before the Board; or
- (4) Take any other action that the Board deems appropriate to resolve the matter.

m. For disciplinary hearings before the Board, or upon being presented the findings and recommendations of a hearing officer, any Board member may make a motion concerning the decision to be made by the Board. The motion must be seconded and adopted by a majority vote of the Board members participating in the hearing to be effective.

n. After the Board has made a decision on a matter, the Board's legal counsel shall draft a formal Decision and Order and submit the draft to the Executive Director. The Executive Director may make appropriate revisions and forward the revised Decision and Order to the Chairperson of the disciplinary hearing for signature.

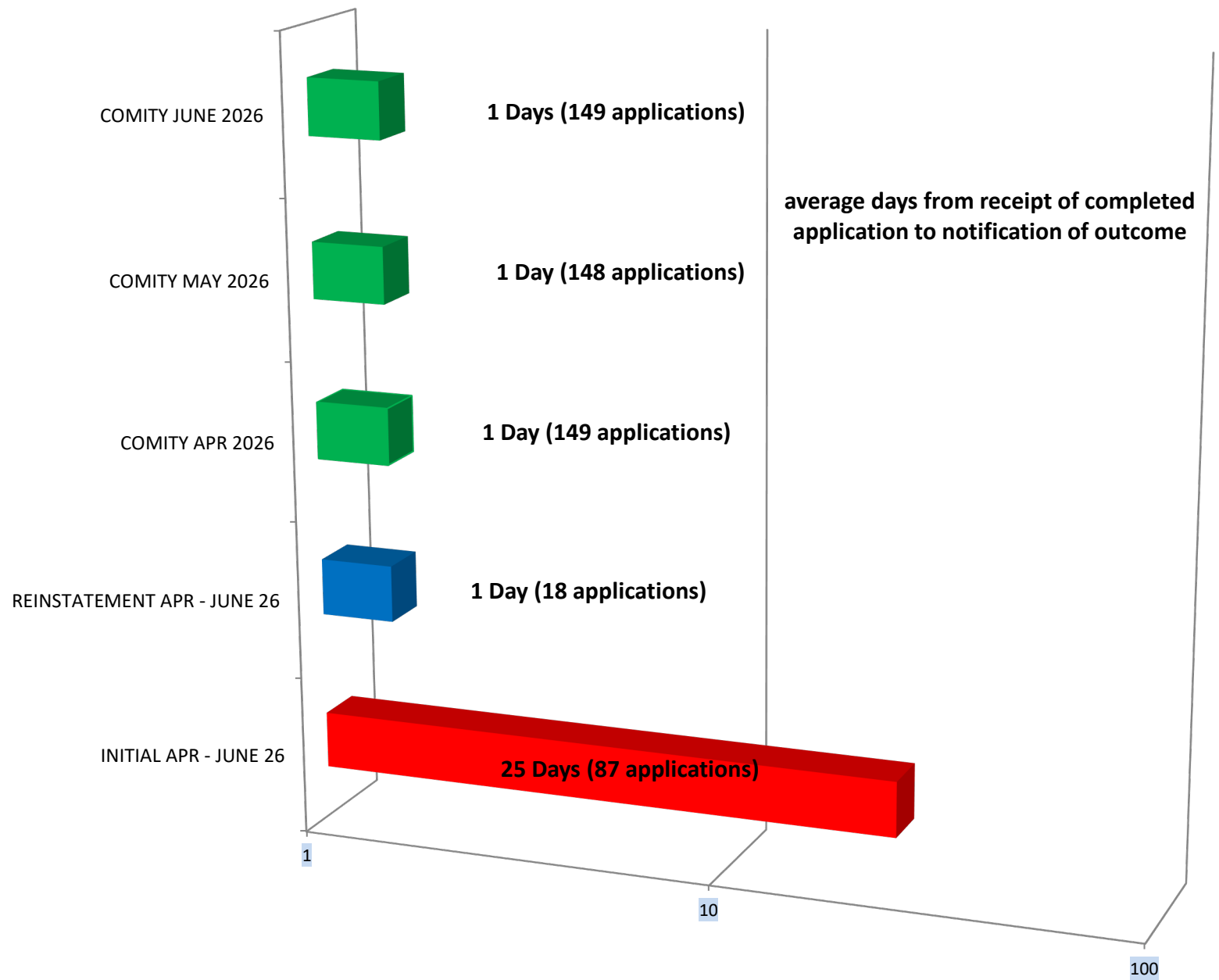
o. The signed Decision and Order of the Board shall be served by certified mail on Respondent, return receipt requested.

p. Respondent has 30 days following receipt of the written decision of the Board to seek judicial review. (See NRS 2338. 130).

4917-2196-3951, v. 1

14. Administrative Report by Executive Director

14a. Approved Licensees Report



14.b. 2025-2028 Strategic Plan



STRATEGIC PLAN UPDATE

Executive Summary

November 5, 2025

Fall 2025

EXECUTIVE SUMMARY

STRATEGIC PLAN UPDATE ~ NOVEMBER 5, 2025

The Nevada Board of Professional Engineers and Land Surveyors developed a comprehensive Strategic Plan in March 2017. The plan was created using a 10-30 year planning horizon based on the Boards's core ideology consisting of a core purpose and core values. The Strategic Plan is attached as **Appendix A**.

Because the Strategic Plan had been developed in 2017, the board felt it should periodically reconsider the outcomes from its contents. The Board met September 11, 2020, to comprehensively review its goals and actions from the Strategic Plan and consider any needed updates.

At the September 11, 2020, Strategic Planning Session, the Board reaffirmed that the goals developed based on the 10-30 year planning horizon were still relevant. The session then focused on review and refresh of strategies. It was agreed that tactics and action items would be driven by the strategies and developed by the Board and its committees at future meetings.

The Board met again November 5, 2025, to reconsider the relevance of the goals and strategies associated with the Strategic Plan. The board reaffirmed that the goals were still current and focused on reviewing and refreshing their strategies. The updated strategies will be used to develop and drive tactics and action items of the Board, its committees, and staff.

This document incorporates an additional core value, reaffirms the Board's goals derived from the Strategic Plan, and documents the board's strategies for the next 2-3 year planning horizon. New or revised items are shown in **bold**.

EXECUTIVE SUMMARY

PURPOSE ~ MISSION ~ CORE VALUES

Purpose

The purpose of the board, as stated in Nevada Revised Statute 625.005, is to safeguard life, health and property and to promote the public welfare by providing for the licensure of qualified and competent professional engineers and professional land surveyors.

Mission

Founded on the board's purpose, the board's mission is to uphold the value of professional engineering and land surveying licensure by assessing minimum competency for initial entry into the profession, and to ensure ongoing standard of professionalism by facilitating compliance with laws, regulations, and code of practice; and to provide understanding and progression in licensure by openly engaging with all stakeholders.

Core Values

The board's core values are:

Integrity

Transparency

Continuous Improvement

The board's core values were identified by board members and staff during strategic planning sessions as guiding principles for the performance of their duties. At the board's November 5, 2025 meeting, the board agreed to add *Continuous Improvement* as a core value, rather than embedding it as a strategy within a specific goal. The board affirmed that continuous improvement is a fundamental guiding principle in the execution of its strategic goals. A commitment was reaffirmed to uphold these values by providing governance that is ethical, honest, and consistent, and by operating with accessibility and openness, free from unnecessary obstruction.

3-5 YEAR PLANNING HORIZON

~ OUTCOME-FOCUSED GOALS AND STRATEGIES ~

The following thinking represents the organization's goals for the next 3-5 years. These **Goals** are outcome-oriented statements that represent what will constitute the Nevada board's future success. The achievement of each goal will move the organization towards the realization of its Envisioned Future. The **Strategies** reflect the broad range of direction that will be undertaken to change the existing conditions in order to achieve the goal – they drive **Tactics** -- the type of work and initiatives that will need to be undertaken to achieve the goal.

Strategies considered at the November 5, 2025, strategic planning session discussion were presented for board consideration January 15, 2026. New or updated strategies are in bold text.

Outcome-Focused Goals

1. **Communications Outreach**

The general public, prospective licensees and other key stakeholders have a greater understanding that engineering and surveying licensure are essential to safeguarding public health, safety and welfare.

2. Licensure

The demonstrated value of licensure results in continued growth in the number, quality and diversity of licensed engineers and surveyors practicing in Nevada.

3. Regulation

Nevada regulations are compatible with and reflective of the current state of practice in engineering and surveying and are in alignment with Nevada's economic development strategy.

4. Operational Excellence

The Nevada Board's efficient and effective use of technology and streamlined systems, processes and procedures result in high levels of satisfaction by all stakeholders.

Goal 1: **Communications Outreach**

The general public, prospective licensees and other key stakeholders have a greater understanding that engineering and surveying licensure are essential to safeguarding public health, safety and welfare.

Strategies

1. **Develop and implement a comprehensive communications plan**
 - **Determine and define social media strategy with target markets and establish performance metrics**
 - Increase legislators' understanding of criticality of services provided by the board and professional engineers/professional land surveyors
 - develop tactics in consultation with govt affairs liaison
 - Increase visibility of the Board
 - participation in relevant industry and association events
 - social media content on pathway to license
2. **Evolve communications capability and expand public awareness**
3. **Evolve technical capability and expand social media presence**
 - review performance by platform/content and make recommendations for on-going use
4. **Sustain appropriate allocation of resources for effective content development**
 - budgeting for range of communication options

Goal 2: **Licensure**

The demonstrated value of licensure results in continued growth in the number, quality and diversity of licensed engineers and surveyors practicing in Nevada

Strategies

1. **Increase/stress the importance of licensure to university level students**
 - communicate to freshman and capstone classes (presentation)
 - PAL committee active in this area
 - relevant social media content

2. Increase the public's knowledge about the value of licensure
 - expand content on the public section of website
3. Increase kids' knowledge of what engineers/land surveyors do
 - coordinate with PAL participant activities
 - **develop mission and vision statements for PAL**
 - **schedule regular PAL committee meetings**
 - point of contact for speakers on the professions (PE PLS)
 - focus on under-graduate level
4. Continuously work to improve the process and portability of licenses
 - ongoing evaluation of regulations and efficiencies of the licensing process
5. **Support alternative higher education pathways** to meet land surveyor education requirements
6. Maintain relevancy of engineering licensure, specifically as it relates to emerging fields of engineering
 - engage nationally/internationally to increase awareness of industry trends

Goal 3: Regulation

Nevada regulations are compatible with and reflective of the current state of practice in engineering and surveying and are in alignment with Nevada's economic development strategy.

Strategies

1. Maintain currency and applicability of statutes and regulations
 - program of continuous review and evaluation
2. Increase relationships with key stakeholders
 - constant and relevant two-way communication
3. Increase awareness of new/emerging technologies in relation to statutes and regulations
 - participate in relevant national/international working groups

Goal 4: Operational Excellence

The Nevada Board's efficient and effective use of **data**, technology, and streamlined systems, processes and procedures result in high levels of satisfaction by all stakeholders.

Strategies

1. Maintain effective **staff capability and** capacity
 - continuous review of staff functions
 - cross train in core areas
 - **develop a succession plan**
2. **Document “good things” done by the board**
3. Maintain business plan for resource allocation to support board goals
 - adjust staffing as needed to execute business plan
4. Maintain effective office and administrative processes
 - evaluate against available technology
 - monitor quality of admin communications
5. Increase transparency and communication with stakeholders of board functions, operations, and initiatives
 - **Continue publishing** annual report of board activities for the public record (**publish as an informational item in board meeting materials**)

Appendix A

Approved Strategic Plan

Approved 2017-2021 Strategic Plan

Nevada Board of Professional Engineers and Land Surveyors

Developed in Las Vegas
March 29 & 30, 2017

Prepared by
Cate Bower, FASAE, IOM
Co-Founder, Cygnet Strategy LLC
www.CygnetStrategy.co

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Background

This draft of the Nevada Board of Professional Engineers and Land Surveyors' Strategic Plan is based upon 1) the input from a survey of the Board conducted in January 2017 and 2) the results of a random sample survey of Licensees conducted in February 2017 plus 3) the March 2017 Strategic Planning Retreat held in Las Vegas, NV.

Participants in the retreat received the results of the 2 pre-session data collections to inform their thinking.

This Draft Plan encompasses the Key Plan elements which emerged from the discussion:

- Mission/Core Purpose
- Core Values
- Vivid Description of the Future
- Strategic Issues of Concern
- Outcome Focused Goals
- Objectives to achieve the goals
- Strategies for priority areas of focus.

While strategies to accomplish the goals and objectives were developed at the retreat, strategies are not considered a part of the plan being approved, because they can change so frequently throughout the planning cycle as the environment shifts.

10-30 YEAR PLANNING HORIZON

~ CORE IDEOLOGY & ENVISIONED FUTURE ~

Core ideology describes an organization's consistent identity that transcends all changes related to its relevant environment. Core ideology consists of two parts: **core purpose** – the organization's mission or reason for being – and **core values** – essential and enduring principles that guide an organization.

CORE PURPOSE OF THE NEVADA BOARD REMAINS UNCHANGED

To safeguard life, health, and property and to promote the public welfare by providing for the licensure of qualified and competent professional engineers and professional land surveyors.

DRAFT CORE VALUES OF THE NEVADA BOARD

1. *Integrity*¹
2. *Transparency*

Vision is a clear and compelling catalyst that serves as a focal point for effort. The **Vivid Description of the Future** describes what would constitute success 10-20 years from now.

What would we like to see happen?

- Updated regulations and statutes
- Renewed interest of young people
- No exemptions
- More public awareness
- Able to better educate future engineers/land surveyors on importance of licensure
- Raise the bar of the profession
- Catch up with technology
- Streamline licensure
- Provide alternative path for surveyors while maintaining 4 year degree requirement
- Engaged with younger people via social media
- More involvement in STEM

¹ The group determined that integrity encompasses trustworthy, fair, ethical, respected, consistency, compassion, attentive/thorough. At a future date, the group may choose to write statements which more fully explain the intent behind these two core values.

What will the Nevada Board look like?

- Diverse
- Engaged
- Committed
- Approachable
- More visible to public
- Exemplary board to be respected

What will the Board feel like to licensees?

- Licensure process easy to go through
- Information attainable through smart devices
- Readily available at fingertips
- They see the Board as a resource
- Fair and honest professionals
- Solve problems in timely fashion
- Progressive
- Here to help vs. bring hammer down
- Available and personable

What will the Board feel like to other stakeholders?

- Understood
- Recognizable
- Have value to them
- Public feels safe/understands what we do

What will it have achieved?

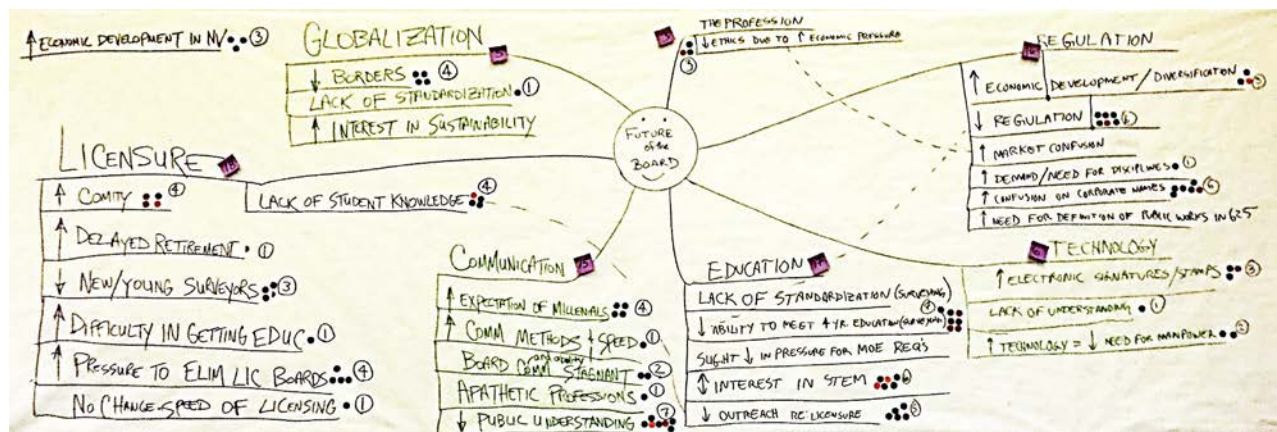
- Board is efficient and effective in licensing applicants in a timely manner
- Increase in rate (number) of licensees
- Allied with economic development of Nevada
- Public, Board and Legislators have a clear understanding of what surveyors and PEs do
- Overall process is simplified and user friendly as possible
- Known
- Revised NRS/NACS laws to address prior items
- More fluid/efficient/faster in comity

5-10 YEAR PLANNING HORIZON

~ BUILDING FORESIGHT: ENVIRONMENTAL FACTORS ~

Assumptions about the relevant future environment will help the Nevada Board purposefully update its strategic plan on an annual basis. Goals are a necessary foundation for successful strategic planning. Goals are based, in part, on anticipation of the possible future. The Board's projected future environment is described in this section. An annual review of these assumptions will help the organization ensure the ongoing relevance of its strategy. When conditions change, strategy will need to be adjusted. The assumptions, which appear here, are those deemed to be most critical to the Nevada Board within the next 3-5 years.

Working together the group created a visual 'mind map' of the emerging trends and issues that might have an impact of the Nevada Board and those it serves over the life of the plan. The picture of the mind map appears below.



These are the key areas identified along with frequency counts of the relative importance of the identified trends. Contradictory trends were permitted. The numbers indicate the number of votes each item received. N= 15

- 18 Licensure
- 17 Education
- 16 Regulation
- 15 Communications
- 6 Technology
- 5 Globalization
- 3 The Profession
- 3 Economic Development

5-10 YEAR PLANNING HORIZON

~ MEGA ISSUES ~

Mega-issues are issues of strategic importance that represent challenges the organization will need to face in defining the ultimate direction of its long-range plan. These issues represent potential impediments to achievement of the envisioned future and form a basis for dialogue about the **choices facing the organization**. These questions can also serve as an ongoing menu of strategic issues that the Board and Senior Staff can use--in a knowledge-based approach to gathering insights relative to the Nevada Board's strategic position and directional choices--to create regular opportunities for strategic dialogue about the issues facing the organization and its member boards. These are not presented in any prioritized order.

State Laws and Regulations

1. How can we get the regulations and ordinances to work for the licensees?
2. To what extent do we want to regulate engineering after defining what engineering is?
3. How does state level regulation fit into continued globalization of profession?
4. How much do we want to work within boundaries of existing state laws vs. create the new boundaries?
5. How can the Board respond to trends of deregulation and elimination of licensing boards and legislation that diminishes the Board's ability to regulate the profession?

How the Board Functions and What it Pays Attention To

6. How can we become more flexible in the way we think and operate?
7. How can we best use technology to help us achieve our goals? How do we attain technical ability to keep up with the times?
8. How do we engage technical customer base and provide ways that they can communicate that would be most comfortable for them?
9. What communications methods should we consider to enhance communications?
10. How can we motivate ourselves as a Board to accomplish what we are trying to do?
11. How do we get more insight on what Millennials want?

Outreach

12. How do we promote engineering profession in young women/younger generation?
13. How do we best engage with our profession?
14. What steps can we take to begin reaching the needs of licensees?
15. How do we engage engineers in the industrial field to gradually eliminate the industrial exemption?
16. How do we interface with students to encourage them to get licensed?

Other

17. How can we enhance mobility, i.e., How do I take the New Mexico exam proctored in our NV office? How do we take other state exams in NV without having to travel? And vice versa?
18. Education – LS—Why is education essential to our fields and is it a hindrance or a helper?
19. How do we encourage STEM learning and promote the profession and educate new generation of professionals?

3-5 YEAR PLANNING HORIZON

~ OUTCOME-FOCUSED GOALS AND OBJECTIVES ~

The following thinking represents the organization's goals for the next 3-5 years. These **Goals** are outcome-oriented statements that represent what will constitute the Nevada Board's future success. The achievement of each goal will move the organization towards the realization of its Envisioned Future. The **Objectives** reflect the broad range of direction that will be undertaken to change the existing conditions in order to achieve the goal – they drive **Strategies** -- the type of work and initiatives that will need to be undertaken to achieve the goal.

4 Outcome-Focused Goals

Outreach

The general public, prospective licensees and other key stakeholders have a greater understanding that engineering and surveying licensure are essential to safeguarding public health, safety and welfare.

Licensure

The demonstrated value of licensure results in continued growth in the number, quality and diversity of licensed engineers and surveyors practicing in Nevada.

Regulation

Nevada regulations are compatible with and reflective of the current state of practice in engineering and surveying and are in alignment with Nevada's economic development strategy.

Operational Excellence

The Nevada Board's efficient and effective use of technology and streamlined systems, processes and procedures result in high levels of satisfaction by all stakeholders.

Goals and Objectives

Objectives flagged in bold face and highlighted in yellow are areas identified as priorities for the first 18-24 months of the plan. Objectives appear below the goal in descending order of priority. Detailed strategies for accomplishing them appear starting on page 15.

Goal 1 Outreach

The general public, prospective licensees and other key stakeholders have a greater understanding that engineering and surveying licensure are essential to safeguarding public health, safety and welfare.

Objectives

- 1. Increase legislators understanding of criticality of services provide by PE/PLS**
- 2. Increase technical capability and social media presence**
3. Increase visibility of the Board
4. Increase spending on message development
5. Increase modes of delivering messages and frequency of delivering messages

Goal 2 Licensure

The demonstrated value of licensure results in continued growth in the number, quality and diversity of licensed engineers and surveyors practicing in Nevada

Objectives

- 1. Increase/stress the importance of licensure to university level students**
- 2. Increase the public's knowledge about the value of licensure**
3. Increase kids' knowledge of what Engineers/LS do
4. Speed up process of licensure by comity
5. Provide options to meet LS educational requirements

Goal 3 Regulation

Nevada regulations are compatible with and reflective of the current state of practice in engineering and surveying and are in alignment with Nevada's economic development strategy.

Objectives

- 1. Decrease the number of old, out-dated regulations and increase applicability of regulations**
2. Increase relationships with key stakeholders
3. Increase awareness of new/emerging technology

Goal 4 Operational Excellence

The Nevada Board's efficient and effective use of technology and streamlined systems, processes and procedures result in high levels of satisfaction by all stakeholders.

Objectives

- 1. Increase staff capacity**
- 2. Create a business plan/budget to fund new initiatives /board improvements/ updates**
- 3. Update all office and administrative processes**
4. Build a data collection strategy to ensure data needed for effective decision-making

Priority Objectives² with Strategies for First 18-24 months

Goal 1 Outreach

Objective 1 Increase legislators understanding of criticality of services provide by PE/PLS

1. Develop a plan with lobbyists to involve legislature members with Board; i.e., Board meetings, meet and greets, etc.
2. Develop a plan to involve Board lobbyist with legislators on an ongoing basis
3. Create the 'value added' message
4. Leverage BOE/PAL relationships with associations to develop a unified message

Objective 2 Increase social media presence

1. Find and hire the appropriate consultant to support this objective
2. Develop a social media plan with consultant
3. Identify best social media modes/methods
4. Identify audiences
5. Establish social media budget
6. Establish the role of BOE staff in social media
7. Research and use association resources (NALS, NCEES, ASCE, NSPE, etc)

Goal 2 Licensure

Objective 1 Increase public knowledge about licensure

1. Determine targeted audiences
2. Develop and implement a PR campaign (link with Outreach Objective #2)

Objective 2 Increase the importance of licensure to university students

1. Encourage university professors to promote licensure and share process
1. Provide board Ambassadors to work with UNR/UNLV on informing students on licensure – one from North and one from South

Objective 3 Increase kids knowledge of Engineering/Land Surveying

1. Participate in career days
2. Work with professional groups
3. Inform school districts of our willingness to share about Engineering/Land Surveying

Goal 3 Regulation

Objective 1 Decrease outdated regulations and increase applicability of regulations

1. Identify outdated/not applicable regulations
2. Remove obsolete regulations
3. Update/modify/create remaining regulations
4. Adopt new regulations – follow process

² Objectives flagged in yellow are priorities for the first 18-24 months. Other objectives and strategies noted during the retreat are also captured and reported here

Objective 2 Increase relationships with key stakeholders

1. Identify key stakeholders (link to other stakeholder work)
2. Create/develop new relationships
3. Leverage existing relationships
4. Maintain / foster relationships
5. Create process to regularly evaluate effectiveness of current relationships

Objective 3 Increase awareness of new/emerging technologies

1. Identify resources (organizations, boards, industry) that are dealing with some of the same issues for potential partnerships/collaborations
2. Identify/subscribe to new technology publications
3. Create/develop relationships with Nevada Economic Development office
4. Identify how we can have licensees tell us about what's new – newsletter, website?

Goal 4 Operational Excellence

Objective 1 Increase staff capacity

1. Hire full or part time consultants as needed
2. Staff training as needed
3. Conduct a workload assessment
4. Create a plan of action
 - Hire social media consultant (see Outreach goal)
 - Fill compliance position (April 17)
 - Fill part time position in Las Vegas office (in pipeline)
 - Possible need for additional office staff for newsletter publishing on a regular basis (1/4 time?)

Objective 2 Create a business plan/budget to fund new initiatives /board improvements/ updates

1. Prioritize captured action items both in time and money

Objective 3 Update all office and administrative processes

1. Scan/convert paper to PDF and shred paper
2. Old and new
3. QC is in place

Objective 4 Build a data collection strategy to ensure we have data needed for effective decision-making

APPENDIX

The information contained in the Appendix is provided as reference in evaluating the draft plan. Based on the mind map, small groups identified what they believed to be the most important trends and then what the Nevada Board is currently doing to address the trend and what they wish the Board could do. Here are the notes from those discussions

Consolidated table discussions of trends from Mind Map

Doing Now	Wish We Could Do	Regrets
4 Year Degree for Surveyors		
- Watching from sidelines - Enforcing regulations - Promoting relationships with GB/UNLV	- Allow for experience options (need more options) - Revise regs/Alternate Education regs required; - Further continue education programs	- Wish knew end point when creating original requirement - Harder to obtain 4 years
Comity		
- Streamlined procedures to simplify (internal steps to make easier), - Reg. comity agreement	- Nice if other states did the same kind of changes - Licensure ≤ 30 days - Licensure at staff level - State specific exam (PLS) proctored	
Regulations		
We are watching from sidelines, just monitor now	Wish would make revisions when needed	
STEM		
- Not doing anything (2) - Karen's Book - Speaker on women in STEM	- Engage industry more to get word out more collaboratively - PAL - School district coordinated speakers - Community service group coordinator - Outreach from Board - Younger education - Fund education/	Lack of enthusiasm

	programs • Social media	
Public/Student/Licensee Understanding		
• Place for public interface on website update, • PAL (2) • Responding to invites • New website • Staff • Speak to students when invited	• PR on PE/PLS • Regular newsletter • Regular blog on website • Committees to go to UNR/UNLV/GBC to talk about licensure • School district/coor. Speakers • Twitter, Instagram, Snapchat, Facebook • Organized PR • Social media • Ambassador to UNR and UNLV	• Inconsistency • Diluted message • Lack of PAL for about 4 years • Economics
Economic Development		
• Conditional Approval	• What are we regulating • What is engineering • Regulations • PE/PLS in each office in NV • Exemptions? • License other new/emerging disciplines	• Invite to table re NV economic initiatives
Corporate Registration		
• Enforcing as best possible	• Revise law for better understanding	• Inconsistency
Deregulation		
• Legislative Committee • Lobbyist	• Show the value of the board to legislature • Educate public/legislature	• They don't understand

~ CONDITIONS ~

This section includes an assessment of the **conditions** that make each goal important to the Board. Participants were given 2 **critical** votes each (must be addressed in the plan) and 8 **important** votes (addressed if time and resources available). Each critical vote is counted as 2 points in the total. The priority conditions identified are the basis for the the Draft Objectives. This is intended to be a guiding tool, not a prescriptive vote.

Weighting: Critical Condition count 2; Important Conditions count 1

Outreach Goal	Critical	Important	Total
1. Legislators don't understand PE/PLS or what the Board does	10	8	18
2. Limited social media capacity	2	6	8
3. Not enough promotion of STEM	2	5	7
4. Services provided by PE/PLS critical to safeguarding public health and safety		6	6
5. Public doesn't understand PE/PLS		1	1
6. How a network we can connect to on this	2		2
7. Don't have clear message – essential elements		4	4
8. All stakeholders don't see our value		2	2
9. Public assumes someone else keeps them safe – take us for granted		1	1
10. Not enough engineers/LS in the pipeline		1	1
11. Public does understand what Board does			
12. People get information from nontraditional sources			
13. Limited resources to apply here			

Licensure Goal	Critical	Important	Total
1. Value unknown to the public	14	3	17
2. Kids don't now about E/LS as career choices		8	8
3. Lack of licensure knowledge in University systems		7	7
4. Takes too long to license people by comity		7	7
5. For LS, disconnect between regs and educational opportunities to meet requirements		6	6
6. PLS declining	2	4	6
7. Women make up less than 20% of Engineers and less of LS		3	3
8. # of engineers stagnant		1	

9. Hard for LS to get needed office experience		1	1
10. Lack of awareness of breadth of engineering – scope			
11. LS see licensure from different lens – limited desire to leave the field work			
12. Difficult to licensure foreign engineers			
13. Immigration policy			

Regulation Goal	Critical	Important	Total
1. Regulations are antiquated	10	5	15
2. Technology constantly changing work environment		6	6
3. Have lobbyist in place		3	3
4. Regs sometimes preclude economic development		2	2
5. Not looped into NV Economic Development		2	2
6. May need to compromise ethics to align with economic development	2	1	3
7. Have control over our rules, changing statutes more difficult		1	1
8. Board members are volunteers		1	1
9. Process to change regulations is cumbersome and sometimes risky			
10. Increased number of out of state engineers working in NV			
11. Board members have terms and are term limited			

Operational Excellence Goal	Critical	Important	Total
1. Current staff stretched thin	8	4	12
2. All administrative processes need documentation and to be updated		7	7
3. Limited staff expertise in emerging areas	4		4
4. Financially stable with reserves		2	2
5. Updated website		2	2
6. No means of measuring stakeholder satisfaction		1	1
7. Quality and quantity of paper overwhelming		1	1
8. Limited staff with limited capacity but very dedicated			
9. Board has control over processes and procedures we choose to use			
10. Technological infrastructure in place			
11. Lack of data about licensees/stakeholders			

Approved 2017-2021 Strategic Plan

Action Items for:

Goal 1: Outreach

Goal 4: Operational Excellence

Outcome Focused Goals and Objectives

Objectives flagged in **bold face** and **highlighted in yellow** are areas identified as priorities for the first 18-24 months of the plan. Objectives appear below the goal in descending order of priority.

Goal 1 Outreach

The general public, prospective licensees and other key stakeholders have a greater understanding that engineering and surveying licensure are essential to safeguarding public health, safety and welfare.

Objectives

1. **Increase legislators understanding of criticality of services provide by PE/PLS**
2. **Increase technical capability and social media presence**
3. Increase visibility of the Board
4. Increase spending on message development
5. Increase modes of delivering messages and frequency of delivering messages

Goal 1 Outreach

Objective 1 Increase legislators understanding of criticality of services provide by PE/PLS

1. Develop a plan with lobbyists to involve legislature members with Board; i.e., Board meetings, meet and greets, etc.

→action item(s)

Do we have an understanding how the legislature sees us (the board)?

Do our lobbyists have an understanding (in line with our thinking) of what the board does?

Do we need to educate legislators about the difference between a professional engineer/land surveyor and regular engineers/land surveyors?

2. Develop a plan to involve Board lobbyist with legislators on an ongoing basis

When we have answers to the above questions we can begin to form a plan

3. Create the 'value added' message

The board has a purpose statement:

"to safeguard life, health and property and to promote the public welfare by providing for the licensure of qualified and competent professional engineers and professional land surveyors"

To support this and make it understandable to all, it needs to be developed into a value added message to engage all stakeholders

→action item

I believe this should come first and be the driver for our outreach action plan. This message

needs to address the value add (the “what’s in it for me” message) to prospective licensees, current professionals, the public and role the board plays in this process

4. Leverage BOE/PAL relationships with associations to develop a unified message

Once we develop a “value added” message, it can be shared with partners to be refined and finalized as a common theme

5. **Objective 2 Increase social media presence**

→*action item(s)*

Start with the re-formatting our newsletter (teaser text with links), where the body of articles live on our website (creating site drivers)

Move toward more engaging items within newsletter, info-graphics, video pieces etc. Introduce a blog and then twitter as an internal medium with board members

Creating a foundation first, of relevant information that people will want to view and share, is integral to launching a social presence

1. Find and hire the appropriate consultant to support this objective
2. Develop a social media plan with consultant
3. Identify best social media modes/methods
4. Identify audiences
5. Establish social media budget
6. Establish the role of BOE staff in social media

~ CONDITIONS ~

This section includes an assessment of the **conditions** that make each goal important to the Board. Participants were given 2 **critical** votes each (must be addressed in the plan) and 8 **important** votes (addressed if time and resources available). Each critical vote is counted as 2 points in the total. The priority conditions identified are the basis for the the Draft Objectives. This is intended to be a guiding tool, not a prescriptive vote.

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Goal 4 Operational Excellence

The Nevada Board's efficient and effective use of technology and streamlined systems, processes and procedures result in high levels of satisfaction by all stakeholders.

Objectives

- 1. Increase staff capacity**
- 2. Create a business plan/budget to fund new initiatives /board improvements/updates**
- 3. Update all office and administrative processes**
4. Build a data collection strategy to ensure data needed for effective decision-making

Objective 1 Increase staff capacity

1. Hire full or part time consultants as needed
2. Staff training as needed
3. Conduct a workload assessment
4. Create a plan of action
 - Hire social media consultant (see Outreach goal)
 - Fill compliance position (April 17)
 - Fill part time position in Las Vegas office (in pipeline)
 - Possible need for additional office staff for newsletter publishing on a regular basis (1/4 time?)

→action item(s)

Eliminate work load items that are related to the user misunderstanding of our processes

Evaluate interactive processes on website to make as intuitive as possible
Staff to evaluate first and draft changes. Outside assessment as a second step

Cross-train staff to distribute workload at peaks in different areas of the operation
(goal to maintain efficiency in workflow)

Evolve investigative position to a contract consultant role hired on a need basis
This will give ability to retain discipline specific technical expertise
Create consultant job description for review by APOC

Hire summer intern to complete conversion to electronic file storage

Objective 2 Create a business plan/budget to fund new initiatives /board improvements/updates

1. Prioritize captured action items both in time and money

→**action item(s)**

Overall business plan will be a function of Goal 1 & 2, but \$ cost to improve operational efficiency/staff capacity will be calculated and submitted to APOC for review and budget approval

Objective 3 Update all office and administrative processes

1. Scan/convert paper to PDF and shred paper
2. Old and new
3. QC is in place

→**action item(s)**

Cross-audit of office processes to identify any inefficient steps

Expand operations manual detail to ensure business continuity

Frequent QC check points to ensure standards adhered to

Objective 4 Build a data collection strategy to ensure we have data needed for effective decision-making

~ CONDITIONS ~

This section includes an assessment of the **conditions** that make each goal important to the Board. Participants were given 2 **critical** votes each (must be addressed in the plan) and 8 **important** votes (addressed if time and resources available). Each critical vote is counted as 2 points in the total. The priority conditions identified are the basis for the the Draft Objectives. This is intended to be a guiding tool, not a prescriptive vote.

Weighting: Critical Condition count 2; Important Conditions count 1

Operational Excellence Goal	Critical	Important	Total
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2. All administrative processes need documentation and to be updated		7	7
3. Limited staff expertise in emerging areas	4		4
4. Financially stable with reserves		2	2
5. Updated website		2	2
6. No means of measuring stakeholder satisfaction		1	1
7. Quality and quantity of paper overwhelming		1	1
8. Limited staff with limited capacity but very dedicated			
9. Board has control over processes and procedures we choose to use			
10. Technological infrastructure in place			
11. Lack of data about licensees/stakeholders			

14.c. NCEES

14.c.i. NCEES Annual Meeting Welcome Package

15. NCEES Annual
Meeting – Authorize
Board Chair Brent Wright
to Vote on Behalf of the
Board

16. NCEES Annual Meeting Conference Report and Action Items

16.a. NCEES Annual Meeting Consent Agenda

[Not available at this time]

16.b. NCEES Annual Meeting Non-Consent Agenda

[Not available at this time]

17. Committee Reports

17.a. Administrative Procedures Oversight Committee

17. b. Legislative Committee

17.c. Professional Association Liaison Committee

17.d. Public Outreach Committee

17.e. PLS Subcommittee

17.f. Governmental Outreach Committee

18. ACEC Qualification Based Selection White Paper

Position Paper regarding Qualifications Based Selection (QBS) –ACEC Nevada

Nevada law requires public agencies to procure engineering services based on the experience and qualifications of the firm at a fair and reasonable fee. This process—Qualifications-Based Selection (QBS)—protects public safety, promotes project success, and saves taxpayer dollars.

- **QBS is state law** — required for public projects involving engineering services.
- **The competitive selection process emphasizes technical competence and experience at the front end, rather than taking the cheapest bid** — after the most qualified firm is chosen, fees are negotiated based on the development of a scope of work.
- **QBS saves money and promotes successful project outcomes** – according to academic studies, projects using QBS experience fewer change orders and construction delays and result in more satisfied owners.
- **QBS reduces risk and long-term costs** — an emphasis on qualifications leads to innovative, safer, more reliable public infrastructure.

The following presents ACEC Nevada’s position regarding the application of Qualifications Based Selection (QBS) as articulated in Nevada Revised Statute (NRS) 625.530(3).

The American Council of Engineering Companies (ACEC) defines Qualifications-Based Selection (QBS) as “a procurement process through which firms compete for work based on experience and technical expertise, rather than competing for the lowest cost bid.” QBS is codified in federal law as the 1972 Brooks Act and has been adopted in 46 states, sometimes referred to as “mini Brooks” statutes.

The Statute

In Nevada, QBS is a state law codified in the Nevada Revised Statutes governing the selection of professional engineering, surveying and architectural services for Public Works projects. The primary basis of the statute is covered in NRS 625.530, the first part of subsection 3:

NRS 625.530 Restrictions upon public works; preferences for contracts.

3. The selection of a professional engineer, professional land surveyor or registered architect to perform services pursuant to subsection 1 must be made on the basis of the competence and qualifications of the engineer, land surveyor or architect for the type of services to be performed and not on the basis of competitive fees...

Who Has To Follow It

Subsection 1 of NRS 625.530 (as referenced in Subsection 3) defines the entities and types of projects that require the use of QBS:

1. The State of Nevada or any of its political subdivisions, including a county, city or town, shall not engage in any public work requiring the practice of professional engineering or land surveying, unless the maps, plans, specifications, reports and estimates have been prepared by, and the work executed under the supervision of, a professional engineer, professional land surveyor or registered architect.

Based on subsection 1 the QBS requirements apply to all agencies and departments of the state, counties, cities and townships.

Applicable Project Types

The types of projects covered by QBS include “any public work requiring the practice of professional engineering or land surveying... prepared by, and the work executed under the supervision of, a professional engineer, professional land surveyor or registered architect.”

For the definition of what constitutes professional engineering services we can refer to NRS 625.050:

NRS 625.050 “Practice of professional engineering” defined.

1. “The practice of professional engineering” includes, but is not limited to:
 - (a) Any professional service which involves the application of engineering principles and data, such as surveying, consultation, investigation, evaluation, planning and design, or responsible supervision of construction or operation in connection with any public or private utility, structure, building, machine, equipment, process, work or project, wherein the public welfare or the safeguarding of life, health or property is concerned or involved.
 - (b) Such other services as are necessary to the planning, progress and completion of any engineering project or to the performance of any engineering service.

The application of engineering principles includes any and all aspects of a project lifespan from project planning, alternatives, design and construction. Engineering principles would be those practiced by professional engineers and taught as part of an engineering curriculum at a college or university.

The statute does not place any limitations on the QBS requirement based on percentage of work that is engineering. It also does not exclude services that are preliminary or planning in nature. Rather, it applies to any project that includes any services that fall under the definition of the practice of professional engineering as defined in NRS 625.050 irrespective of the amount of those services or the preliminary or planning nature of those services.

Subsection 2 of NRS 625.530 outlines exceptions to the QBS requirement to engage a professional engineer:

2. The provisions of this section do not:
 - (a) Apply to any public work wherein the expenditure for the complete project of which the work is a part does not exceed \$35,000.

(b) Include any maintenance work undertaken by the State of Nevada or its political subdivisions.

(c) Authorize a professional engineer, registered architect or professional land surveyor to practice in violation of any of the provisions of this chapter or [chapter 623](#) of NRS.

(d) Require the services of an architect registered pursuant to the provisions of [chapter 623](#) of NRS for the erection of buildings or structures manufactured in an industrial plant, if those buildings or structures meet the requirements of local building codes of the jurisdiction in which they are being erected.

Selection Process & Local Preference

After the QBS requirement in the first sentence of Subsection 3 of NRS 625.530, there are 3 additional sentences pertaining to 2 distinct clauses: (1) the selection/negotiation process under QBS and (2) a local preference available through a “certificate of eligibility to receive a preference when competing for public works”.

The first of these clauses indicates the process of selection if negotiations fail to reach agreement on a reasonable scope and fee:

If, after selection of the engineer, land surveyor or architect, an agreement upon a fair and reasonable fee cannot be reached with him or her, the public agency may terminate negotiations and select another engineer, land surveyor or architect.

The succeeding clause, which was added in 2011 (SB 268), deals with preferential weighting for local firms possessing a “certificate of eligibility to receive a preference when competing for public works”. This does not impact QBS requirements (bold added for emphasis):

Except as otherwise provided in this subsection, in assigning the relative weight to each factor for selecting a professional engineer, professional land surveyor or registered architect pursuant to this subsection, the public agency shall assign, without limitation, a relative weight of 5 percent to the possession of a certificate of eligibility to **receive a preference** when competing for public works. If any federal statute or regulation precludes the granting of federal assistance or reduces the amount of that assistance for a particular public work because of the provisions of this subsection **relating to a preference** when competing for public works, those provisions of this subsection do not apply insofar as their application would preclude or reduce federal assistance for that public work.

The last sentence provides an exemption for the preferential weighting where it might impact federal funding criteria. This is understood to impact the preferential weighting requirement but does not impact the QBS requirement. Both the intent of the additional sentences after the QBS language as well as the plain language itself do not impact the applicability of QBS to public works in Nevada that require the practice of professional engineering or land surveying.

In summary, QBS applies to all public works projects executed by public entities in Nevada where the services of a professional engineer are required.

REFERENCES

NRS 625.530 Restrictions upon public works; preferences for contracts. Except as otherwise provided in [NRS 338.1711](#) to [338.173](#), inclusive, and [408.3875](#) to [408.3888](#), inclusive:

1. The State of Nevada or any of its political subdivisions, including a county, city or town, shall not engage in any public work requiring the practice of professional engineering or land surveying, unless the maps, plans, specifications, reports and estimates have been prepared by, and the work executed under the supervision of, a professional engineer, professional land surveyor or registered architect.

2. The provisions of this section do not:

(a) Apply to any public work wherein the expenditure for the complete project of which the work is a part does not exceed \$35,000.

(b) Include any maintenance work undertaken by the State of Nevada or its political subdivisions.

(c) Authorize a professional engineer, registered architect or professional land surveyor to practice in violation of any of the provisions of this chapter or [chapter 623](#) of NRS.

(d) Require the services of an architect registered pursuant to the provisions of [chapter 623](#) of NRS for the erection of buildings or structures manufactured in an industrial plant, if those buildings or structures meet the requirements of local building codes of the jurisdiction in which they are being erected.

3. The selection of a professional engineer, professional land surveyor or registered architect to perform services pursuant to subsection 1 must be made on the basis of the competence and qualifications of the engineer, land surveyor or architect for the type of services to be performed and not on the basis of competitive fees. If, after selection of the engineer, land surveyor or architect, an agreement upon a fair and reasonable fee cannot be reached with him or her, the public agency may terminate negotiations and select another engineer, land surveyor or architect. Except as otherwise provided in this subsection, in assigning the relative weight to each factor for selecting a professional engineer, professional land surveyor or registered architect pursuant to this subsection, the public agency shall assign, without limitation, a relative weight of 5 percent to the possession of a certificate of eligibility to receive a preference when competing for public works. If any federal statute or regulation precludes the granting of federal assistance or reduces the amount of that assistance for a particular public work because of the provisions of this subsection relating to a preference when competing for public works, those provisions of this subsection do not apply insofar as their application would preclude or reduce federal assistance for that public work.

[12a:198:1919; added [1947, 797](#); A [1949, 639](#); 1943 NCL § 2875.06a]—(NRS A [1967, 953](#); [1971, 774](#); [1973, 1700](#); [1975, 208](#); [1977, 320](#); [1983, 807](#); [1989, 788](#); [1997, 1055](#); [1999, 3489](#); [2001, 2022](#); [2003, 119](#); [2011, 3707](#))

Statutory definition of the “public work”:

NRS 338.010 (Public Works) defines “public work” as follows:

19. “Public work” means any project for the new construction, repair or reconstruction of a project financed in whole or in part from public money for:

- (a) Public buildings;
- (b) Jails and prisons;
- (c) Public roads;
- (d) Public highways;
- (e) Public streets and alleys;
- (f) Public utilities;
- (g) Publicly owned water mains and sewers;
- (h) Public parks and playgrounds;
- (i) Public convention facilities which are financed at least in part with public money; and
- (j) All other publicly owned works and property.

Statutory definition of the “Practice of professional engineering”:

NRS 625.050 “Practice of professional engineering” defined.

1. “The practice of professional engineering” includes, but is not limited to:

(a) Any professional service which involves the application of engineering principles and data, such as surveying, consultation, investigation, evaluation, planning and design, or responsible supervision of construction or operation in connection with any public or private utility, structure, building, machine, equipment, process, work or project, wherein the public welfare or the safeguarding of life, health or property is concerned or involved.

(b) Such other services as are necessary to the planning, progress and completion of any engineering project or to the performance of any engineering service.

2. The practice of engineering does not include land surveying or the work ordinarily performed by persons who operate or maintain machinery or equipment.

Definition of State political subdivision (NRS 41.0305 or NRS 354.474): A political subdivision of a state is a local government unit created by the state government. Examples of political subdivisions include counties, cities, townships, villages, schools, sewer and sanitation districts, utility districts, irrigation districts, drainage districts, flood-control districts, regional transportation commission, water district, and any other special district that performs a governmental function.

Explanation:

- Political subdivisions are created by a higher level of government.
- They are local jurisdictions that are below the state government level.

- Political subdivisions can be municipal corporations or have been given the power to exercise some of the state's sovereign power.
- The term "political subdivision" can also refer to any jurisdiction within a state, excluding the state itself.

Determining if an entity is a political subdivision

- The entity must have some of the state's sovereign powers, such as the power to tax, the power of eminent domain, or the police power.
- The entity must be created by the state for a governmental purpose.
- All the facts and circumstances must be considered, including the entity's public purposes and how much the government controls it.

Certificate of eligibility to receive a preference when competing for public works:

<https://www.leg.state.nv.us/Division/Legal/LawLibrary/NRS/NRS-338.html#NRS338Sec173>

Additional discussion on NRS 625.530 subsection 3 – Federal Assistance

Some entities have pointed to the last sentence of subsection 3 to indicate that this subsection does not apply if federal funding is included in the project. However, this clause clearly indicates that this only relates to “the provisions of this subsection relating to a preference”. As stated previously, this is understood to impact the preferential weighting requirement but does not impact the QBS requirements.

Most Federally funded projects must follow the requirements of the Brooks Act which explicitly requires QBS.

ACEC research regarding the benefits of QBS:

An Analysis of QBS in the Procurement of Engineering Services (2022):

<https://www.acec.org/resource/qbs-in-the-procurement-of-engineering-services/>

19. Board Committee Assignments for Fiscal Year 2026-2027



COMMITTEE ASSIGNMENTS

2026 -2027

ADMINISTRATIVE PROCEDURES OVERSIGHT COMMITTEE

Matt Gingerich, PLS, Chair
Karen Purcell, PE
Robert Fyda, PE
Mark Fakler, Executive Director (Staff Liaison)
Murray Blaney, Operations/Compliance (Staff Liaison)

LEGISLATIVE COMMITTEE

Greg DeSart, PE, Chair
Jason Dixon, PE
Matt Gingerich, PLS
Robert Fyda, PE
Chris MacKenzie, Board Counsel (Staff Liaison)
Mark Fakler, Executive Director (Staff Liaison)
Murray Blaney, Operations/Compliance (Staff Liaison)

PROFESSIONAL ASSOCIATION LIAISON COMMITTEE

Michael Kidd, PLS, Chair
Brent Wright, PE/SE
Angelo Spata, PE
Mark Fakler, Executive Director (Staff Liaison)
Derek Vogel, Communications (Staff Liaison)

PUBLIC OUTREACH COMMITTEE

Jason Dixon, PE, Chair
Greg DeSart, PE
Michael Kidd, PLS
Thomas Matter, Public Member
Mark Fakler, Executive Director (Staff Liaison)
Derek Vogel, Communications (Staff Liaison)

20. Government Liaison Report

21. Board and Staff Assignments

Action List

BOARD MEETING ITEMS

November 6, 2025, Board meeting

3. Public comment.

Contact other western boards regarding level of support for a possible NCEES traffic engineering exam, then discuss with Mr Wright consideration of adding as a future meeting agenda item. **Mr Fakler**

January 15, 2026, Board meeting

16. Consideration of Strategic Plan updates from November 5, 2025, Strategic Planning Session.

Communications plan to be developed to align with strategic plan executive summary and with input from both outreach committees. **Staff**

May 14, 2026, Board meeting

6. Board approval of non-appearance applications for initial licensure. Refer to Addendum A for list of applicants.

CE applications identified as requiring at least 12 months more experience (May 2027) to be evaluated by Mr Spata on behalf of the Board to consider for granting licensure. **Staff/Mr Spata**

13. Discussion and possible action on board committee reports.

a. Administrative Procedures Oversight Committee, Chair Matt Gingerich

i. Executive director work performance and salary

Staff to continue review succession planning with staff liaison and present information to APOC to consider. **Staff**

20. Discussion and possible action on status of board and staff assignments.

Mr Spata requested a single final complete version of the Board Book be sent to members prior to the meeting. **Staff**

22. Discussion and identification of topics for future meetings including possible proposed amendments to the Nevada Professional Engineers and Land Surveyors Law, Nevada Revised Statutes and Nevada Administrative Code Chapter 625.

Mr Kidd requested a future agenda item to discuss what form NCEES – in its expanded role – could assist the Board with any needs at the state legislative level. **Staff**

Move QBS White Paper by ACEC to LegComm for review and consideration. **Staff**

Schedule LegComm meeting before next full meeting of the Board. **Staff**

COMMITTEE ITEMS

PROFESSIONAL ASSOCIATION LIAISON COMMITTEE

March 10, 2026, Meeting

5. Development of Profession Association Liaison Committee Mission and Vision statement.

Committee members to propose edits to draft mission (and vision) statement for PAL committee, then present back to committee for consideration. **PAL members**

ADMINISTRATIVE PROCEDURES OVERSIGHT COMMITTEE

APOC - March 30, 2021, Meeting

5. Discuss third-party verification of digital signatures for licensees of the board and possible role of the board in the verification process including cost participation.

Continue to monitor other states regulations relating to third-party verification requirements. **Staff**

March 30, 2023, Meeting

6. Consider proposed budget for fiscal year July 1, 2023, to June 30, 2024.

Suggested that options be explored that could be of some tangible benefit to existing licensees to accelerate the reduction of the reserve. Prepare evaluation of options to be considered by APOC. **Staff**

April 1, 2025, Meeting

6. Consider proposed budget for fiscal year July 1, 2025, to June 30, 2026.

Relating to item 6 from the March 2023 meeting, staff to draft options and present for committee consideration at the next scheduled APOC meeting. **Staff**

April 14, 2026, Meeting

4. Consider executive director work performance and salary.

Reach out to the universities regarding the importance of the fundamentals exam and promote the idea of giving chords (NCEES honor chords) to students who successfully complete the FE exam prior to graduation. **Mr Fakler**

Continue to monitor AI development and its effects on our profession. **Mr Fakler & Staff**

Develop Succession/Transition plan. How do we ensure the current culture continues into the future. **Mr Fakler & Staff**

Continue to update Book of Board and employee manual. **Mr Fakler & Staff**

Reach out to J&J CPA's & Casey Neilon to discuss reserve level for Board. Research Board history during the recession. **Mr Fakler**

PUBLIC OUTREACH COMMITTEE

July 3, 2025, Meeting

Consider options to expand PE/PLS badge program to all licensees. **Staff**

Committee meeting dates to be scheduled 60 days in advance. **Staff**

February 4, 2026, Meeting

Newsletter and social media push to promote Speakers Bureau. **Staff**

Produce video content relating to a newly licensed PE. **Staff**

Explore digital badge options for retiring PEs to highlight years of service. **Staff**

Add content to career collateral highlighting land surveying career options for civil engineering graduates. **Staff**

from March 12, 2026, Board Meeting

Adjust text for lapsed licenses to read "License Expired" (from "Delinquent"), and whether years of engineering practice can be shown with "Retired" status, and those who been license more than 20 years. Explore recognition options in license look-up function. **Staff**

LEGISLATIVE COMMITTEE

Items for discussion

Consider future licensing of engineers as it relates to emerging technologies and blended engineering degrees including considering retention and/or modification of specific disciplines licensed by the board. Develop position statement before end of FY 2023/2024 of the issues to be addressed. This item encompasses discipline specific vs PE state discussion. Mr Fyda and Mr Fakler to discuss and identify possible solutions to the issues identified by position statement. **Future discussion**

Possible NRS changes for consideration

NRS 327 (National datum update), moved to **PLS Subcommittee**

NRS 625.280 (regarding release of NCEES PLSS module), moved to **PLS Subcommittee**

Possible NAC changes for consideration

NAC 625.310 (impact of NCEES PS Exam PLSS module), moved to **PLS Subcommittee**

Schedule for codification approved NAC changes

R 077-23 Licensure and Examinations R 126-23 PLS Standards of Practice

R 079-23 Miscellaneous R 006-24 Written Contracts

R 105-23 PLS Standards of Practice R 007-24 PLS Standards of Practice

Have connected with LCB, **(still) awaiting timeline update**

Monitor

Following review of NCEES Model Law relating to a comity licensure pathway for non-degree applicants, the committee recommended no action and requested staff monitor the number of non-degreed applicants. **From 2.26.2026 meeting**

Add agenda item to July Board Meeting for the Board to consider endorsement of the ACEC QBS White Paper. **From 6.23.2026 meeting**

PLS STANDARDS OF PRACTICE SUB-COMMITTEE

- **NRS 327** (National datum update)

- letter of support for the revised language from NALS (or the Legislative Committee of NALS) **NALS**

- build a list of interested parties to datum change (committee members to forward to Mr Fakler) then reach out with copies of the proposed revisions to seek feedback **Staff**

- public workshop scheduled for **April 15, 2026**, staff to send invite to ALL PLS and interested parties to participate **Staff**

- draft introduction for public workshop **Mr Gingerich & Mr Fakler**

- draft a collateral piece for legislators **Staff**

- work with board govt affairs liaison to identify possible sponsor(s) **Mr Fakler**

- **NRS 625.280** (regarding release of NCEES PS Exam PLSS module)

- **NAC 625.310** (impact of NCEES PS Exam PLSS module)

Staff and **Mr MacKenzie** to identify the impacted statutes and regulations and consider (and draft) possible revisions relating to examination combination options, and present back to the committee for consideration.

- NRS 625.380

Letter from NALS relating to NRS 625.380. Moved to PLS Standards of Practice sub-committee for discussion. **Future discussion**

GOVERNMENTAL OUTREACH COMMITTEE

October 21, 2025, Meeting

3. Update on impacts of Senate Bill 78 (SB 78) which revises provisions relating to boards, commissions, councils and similar bodies.

c. Business & Industry white paper and NVBPELS response

- Understand what B&I are trying to achieve – to the know root issue of what we are dealing with.
- Researching the outcomes of states that have consolidated – particularly engineering boards.
- Identify what makes this board unique, compared to other Nevada boards, and determine the best way to articulate to legislators and the governor's office.

5. Discuss educational outreach strategy.

a. Discussion of outreach approach

- Clearly identify our points of differentiation as a technical board, then develop an effective way to communicate that to stakeholders – particularly the governor's office and legislators.

b. Consideration of creating collateral materials for public education

- Draft a collateral “leave behind” which highlights the importance of licensure and the board
- Meet with senate, assembly members, and the governor's office

April 20, 2026, Meeting

5. Discuss outreach strategy. (Discussion Only).

b. Pre - 84th Legislative Session

- Committee members with personal connections to consider meeting with assembly and/or senate members.

STRATEGIC PLAN ITEMS

Consider for full Strategic Plan update in 2028 – with survey of licensees and other stakeholders and full extended *charrette* to develop a new full plan.

BUSINESS PLAN ITEMS

Electronic submittals + digital signing of documents.

System database comprehensive upgrade + Website effectiveness.

22. Future Meeting Dates

BOARD MEETING DATES

Board meetings are typically scheduled for the second Thursday of every other month.

September 10, 2026 — Las Vegas

November 19, 2026 — Reno

January 14, 2027 — Las Vegas

March 11, 2027 — Reno

May 13, 2027 — Las Vegas

July 15, 2027 — Reno

Future NCEES Meetings

NCEES All Zone Interim Meeting

April 22-24, 2027 — Omaha, Nebraska

NCEES Annual Meetings

August 18-21, 2026 — Henderson, Las Vegas

August 17-20, 2027 – Verona, New York

23.Topics for Future Meetings

24. Public Comment

25. Adjournment