

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



**Interim Board Meeting
October 13, 2022
Virtual**

1. Meeting Call to Order

2. Pledge of Allegiance

3. Public Comment

4. NRS/NAC 625 Waiver Request

WAIVER REQUESTS
Thursday, October 13, 2022

APPLICANTS REQUESTING WAIVER OF NRS 625.183(4)(B)			
NAME	DISCIPLINE	TO:	GRANT?
1. Daniel Berger	ME	Karen Purcell, PE	
<i>NRS 625.193(1)(A) WAIVER OF FE WITH 15 OR MORE YEARS OF EXPERIENCE.</i>			

5. Non-Appearance Applications for Initial Licensure

Civil

NATHANIEL ALDEN (17-750-44)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
10/06/2022

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
5 years, 3 months

Total Engineering
Experience
5 years, 3 months

Experience under licensed
engineer
4 years, 2 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Architectural Engineering (EAC)
Missouri University of Science and Technology
August 2013–May 2017

EXAMS



Fundamentals of Engineering (FE)
Missouri
March 2017

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



LICENSES



Additional Licenses
None

NATHANIEL ALDEN (17-750-44)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

The Whiting-Turner Contracting Company
Nevada (United States)
Assistant Project Manager
July 2017—March 2020

Verified by
Josh Dickson
Josh.Dickson@whiting-turner.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

General Contracting - During my tenure with the Whiting-Turner Contracting Company I started as an intern, was hired on as a project engineer and was promoted to assistant project manager before eventually leaving the company to pursue an engineering career. Daily tasks included project takeoffs, estimating, reviewing drawings for constructability, and relaying information between ownership, architects, engineers and subcontractors during the preconstruction phase. During construction, my responsibilities included writing RFI's to ownership, reviewing project contract documents to confirm submitted materials and shop drawings conformed with engineering specifications, submission of change orders to ownership, and conducting site walks to ensure on site workers are complying with company and OSHA standards of safety.

REPRESENTATIVE PROJECTS

Thomas and Mack West Addition - Intern

During this project, my main tasks included safety site walks, reviewing drawings and specifications to ensure construction complied with the contract documents, writing and submitting RFI's and submission of project submittals to ownership. I was in charge of document management and field quality control. I also worked as the liaison to communicate owner changes to subcontractors in a clear and concise manner to ensure proper field execution of owner, engineering, and architecturally driven change orders.

Flamingo Apartment Complex - Project Engineer

Preconstruction and budgeting of a 70M apartment complex. During this preconstruction project, I was performing value engineering exercises with communication between subcontractors, engineers and owners. I Reviewed drawings and discussed constructability with subcontractors, and I was tasked with comparing conceptual drawings for changes between old sets and latest construction sets to provide updated project pricing.

Wynn Fencing and Bollard Install - Project Engineer

While I was on this project, I was responsible for managing construction budget and construction sequencing for the project. I coordinated work with Public Works to communicate utility conflicts and traffic control updates throughout the duration of the project. Ownership required we compose and submit change order tickets for tracking subcontractor costs on a time and material basis for the entirety of the project, which was my responsibility. We also had issues on this project with existing utility conflicts (there was a utility bank along the entire stretch of street we were working) at bollard foundation locations throughout the project. I worked with the subcontractor to efficiently design concrete footings in a way that was cost effective and allowed for field footing and bollard alterations to prevent project schedule delays, and I ensured these footings were submitted and approved by all parties in a timely manner.

ABC Stores Tenant Improvement in Miracle Mile Shops - Assistant Project Manager

While working on this \$1M interior remodel project, I was responsible for compiling and submitting budgetary and updated construction pricing to ownership. I coordinated with ownership to meet design requests, incorporate design changes in the field, and track all design changes for pricing and scheduling implementation. I helped facilitate field construction changes between engineering and contractors. I ensured site safety was maintained while the store remained operating through the duration of construction. I was the lead manager of construction personnel, subcontractor equipment install, construction budget and construction schedule.

NATHANIEL ALDEN (17-750-44)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Brown & Caldwell
Nevada (United States)
Civil Engineer II
March 2020—October 2022

Verified by
Jon Osborne
josborne@BrwnCald.com

Experience Summary
Full-Time
Engineering: 2 years, 7 months
Post EAC degree: 2 years, 7 months
Experience under licensed engineer:
1 year, 6 months

TASKS

Brown & Caldwell - Civil Engineer II

After moving from the general contracting side of building to the design side, I have worked on sanitary sewer and storm drain pipeline assessments for Las Vegas. I go out into the field to confirm on site conditions (manhole locations and pipeline directions) match the city's database. While working on this project I report directly to a project manager and have been learning engineering practices (as opposed to building practices).

I have also helped with construction support (because of my construction background) reviewing and approving submittals for projects where I was brought in during the construction phase when teams were required to provide quick turnaround for project submittals.

Most recently, I have been working on civil design within wastewater treatment facilities. While working on these projects, I work directly under a PE and manage our AUTOCAD team to develop project design and changes throughout the design process.

REPRESENTATIVE PROJECTS

Engineering Projects

Sanitary Sewer and Storm Drain Pipeline Assessment Program for Las Vegas

For the pipeline assessment programs, we are on a revolving schedule to review and assess the condition of every sanitary and storm pipeline under the jurisdiction of the City of Las Vegas.

During the project, I code pipes using the NASSCO PACP coding and assessment program. I am required to be NASSCO certified for this project. I review CCTV footage within the pipe provided by our subconsultants for structural and operational integrity of the pipeline. I coordinate with our GIS team to ensure field conditions are properly conveyed within our assessments and the GIS map. I notify our client of emergency notifications, provide quarterly progress report updates and submit our yearly assessment at the end of each project year.

Sandhill Interceptor Project

The Sandhill Interceptor project is a diversion gate in Las Vegas used to divert wastewater between two wastewater treatment facilities in the city.

During this project, I was brought in during the construction phase to review submittals from the contractor. I reviewed material submittals, shop drawings and construction means and methods submittals for compliance with contract documents and constructability. I was doing field walks to verify construction production was in line with the project design. There was an issue with the tunneling submittals where the contractor's submittals for means and methods had some major discrepancies from our tunneling subconsultant's design. I had to talk through the tunneling design with our tunneling engineer to understand their design. I then took this information and explained to the Contractor the differences between the design and the proposed methods of construction to ensure the Contractor was properly installing the pipeline in a way that wouldn't disturb the surrounding soil (which was a major aspect of this project.)

Lander Wastewater Treatment Plant Upgrades

The Lander wastewater project is a 3 phase, 10 year plant overhaul in Boise, ID. The project is currently in phase 2.

I have been designing demo and utility drawings and specifications for the next phase of design/construction. Multiple buildings in the facility are being demolished and utilities are being rerouted. I have been using record drawings dating back over 70 years to create a picture of what utilities the team thinks are still in the ground and to identify locations where we think drawing conflicts will be encountered in the field. I work with our AUTOCAD designers to implement engineering and formatting changes within our drawings. I also evaluate our drawings for constructability and make changes as necessary to anticipate and avoid potential construction pitfalls.

NATHANIEL ALDEN (17-750-44)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



QUESTIONS

Has your original license lapsed? If yes, explain.

No

Have you ever been denied licensure by a jurisdiction? If yes, explain.

No

Have you ever been convicted of a misdemeanor? If yes, explain.

No

Have you ever been convicted of a felony? If yes, provide a brief letter of explanation and court documents.

No

Select the disciplines in which you are currently practicing. If more than 1% of time is devoted to a discipline, it must be included.

Disciplines

Civil

Other Disciplines

Has a jurisdiction ever revoked, suspended, or disciplined your license? (Please note this includes a consent agreement, letter of reprimand, Etc.) If the action has been resolved a yes answer is still needed.


No

BENAT ETXEBESTE-URDANGARIN (16-487-24)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL


 Applying To **Nevada**

Application Type **Initial - PE**

Application Date **09/13/2022**

Citizenship **Spain**



SUMMARY



 Engineering Experience after EAC degree **6 years, 1 month**

Total Engineering Experience **6 years, 1 month**


Experience under licensed engineer **6 years, 1 month**

Disciplinary Action **None reported**


 

EDUCATION

 Bachelors in Civil Engineering (EAC)
University of Nevada, Reno
August 2011–May 2016

EXAMS

 Fundamentals of Engineering (FE)
Nevada
March 2016

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

LICENSES

 Additional Licenses **None**

BENAT ETXEBESTE-URDANGARIN (16-487-24)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Eastern Sierra Engineering
Nevada (United States)
Staff Engineer (E.I.)
August 2016—September 2022

Verified by
Deborah Davis Jenkins
djenkins@esengr.com

Experience Summary
Full-Time
Engineering: 6 years, 1 month
Post EAC degree: 6 years, 1 month
**Experience under licensed engineer:
6 years, 1 month**

TASKS

Eastern Sierra Engineering is a civil engineering firm with offices in California and Nevada and specializes in designing roads, pedestrian facilities, and site plans for public entities and large commercial developments. I have worked as a staff designer using Civil 3D to produce plans, design ADA compliant pedestrian ramps and sidewalks, design storm drain and sewer systems. I have drafted project plans and supporting documents such as: preliminary plans, vicinity maps, cost estimates, drainage reports, proposals, cross sections and numerous utility planning figures. Having six years of experience I have worked on many design aspects of projects: designing roadways maintaining curb return flowline and the ability for water to drain and ADA slope requirements, hydromodification calculations, optimizing new storm drain systems to reduce the number of structures, decreasing long term maintenance and choosing most efficient utility layout for a site. I have made many runoff calculations and I have designed storm drain and detention systems for a number of projects. I have also designed road geometry by checking vertical and horizontal profiles as well as site area and conditions.

REPRESENTATIVE PROJECTS

-Truckee Railyard, Truckee, CA: The Project redeveloped approximately fifty acres of land historically occupied by the Union Pacific Railroad and the old lumber mill creating an eastern extension of Downtown Truckee. ESE is the civil engineering firm responsible for the utility and roadway infrastructure design. The project started in 2015, with the completion of design of Phase 1 in September of 2017, and completion of design of Phase 2 in August of 2018. I was involved from the start date of his job at ESE (august 2016) to the end of design of Phase 2 in August of 2018. I prepared the drainage report for the project, including hydrology, hydraulics and infiltration calculations in accordance with the Town standards the Town's small MS4 permit, for Phase 1 and 2 with the use of StormCAD and Excel software. I designed and graded roads and sidewalks in the Phase 1 and Phase 2 of the project with the use of Civil 3D. To do this, existing grade conditions would be checked and surveyor's topo would be analyzed. ADA grade requirements as well as maintaining curb return flowline and the ability for water to drain was taken into account. Besides this, I designed and developed signing and striping plans, by looking at turning radiuses and sight distance requirements. Details, Tentative Map plans, Conditional Use Permit drawings, and cost estimates were also made by me. I gathered as-builts to make the Record Drawings of Phase 1 and Phase 2 of the project. I would look at the contractors plans to update the as-builts and would be in touch with the contractor to update final plans and make sure the correct changes were shown.

-Church Street Extension, Truckee, CA: ESE provided professional design services to the Town of Truckee for the extension of Church Street to Glenshire Drive. Previously ESE prepared a 30% preliminary design including a full alternatives analysis for the type and location of intersection. I was involved in the beginning stages of the project, with the preliminary design of the roundabout and drafting of 30% plans with the use of Civil 3D software. I checked turning radiuses for different types of vehicles as well as sight distances. The final design included the design of a single lane roundabout with an extended graded footprint to accommodate additional lanes in the future. I designed the grading for the roundabout, sidewalks and roads in the project in collaboration with other engineers at ESE. I had to take into account the road profiles as well as flowline and sidewalks to make the elevations of the profile to match the required criteria, for stormwater flow, ADA and City standards. I also graded the bioretention basins and channels necessary for the drainage improvements in the project area. I also took care of the calculations and drainage report for the entire project by StormCAD and Excel software. For these calculations, Storm Runoff was calculated using Rational formula, and basin volume was calculated for the 100 year storm event obtained from Rational formula. I was involved in the project since preliminary design started in December 2017 to the end of the design in June 2021.

-Royal Area Neighborhood Rehabilitation Project, Reno, NV: The City identified approximately 234,000 square feet of streets that were in need of rehabilitation. I was responsible for the design and completion of plans, including laying out, grading pedestrian ramps, driveways, sidewalk and ADA access features. ADA grade requirements as well as maintaining curb return flowline and the ability for water to drain was taken into account my design. I also made the bid schedule and cost estimate. I was involved in this project from November 2019 to September 2020.

-Trout Creek and Industrial Heritage, Truckee, CA: ESE is under contract to provide civil engineering services for a 9.4 acres site. I designed the general site layout and utility configuration, as well as setting up the proposal for the project. I am currently working on the design and grading of roads and sidewalks and ADA access features by finding the most efficient utility elevation, sizing as well as road profiles and elevations. I have been involved from July 2021 to present.

BENAT ETXEBESTE-URDANGARIN (16-487-24)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION

QUESTIONS

Has your original license lapsed? If yes, explain.

No

Have you ever been denied licensure by a jurisdiction? If yes, explain.

No

Have you ever been convicted of a misdemeanor? If yes, explain.

No

Have you ever been convicted of a felony? If yes, provide a brief letter of explanation and court documents.

No

Select the disciplines in which you are currently practicing. If more than 1% of time is devoted to a discipline, it must be included.

Disciplines

Civil

Other Disciplines

Has a jurisdiction ever revoked, suspended, or disciplined your license? (Please note this includes a consent agreement, letter of reprimand, Etc.) If the action has been resolved a yes answer is still needed.

No

RILEY GRUBER (18-899-97)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
10/01/2022

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
July 2014–December 2018

Bachelors in Civil Engineering (EAC)
University of Nevada, Reno
August 2014–December 2018

Masters in Civil & Environmental Engineering
University of Nevada, Reno
January 2019–May 2020



EXAMS



Fundamentals of Engineering (FE)
Nevada
April 2018

Principles and Practice of Engineering (PE)
Civil
Nevada
October 2021

LICENSES



Additional Licenses
None

RILEY GRUBER (18-899-97)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Kimley-Horn
Nevada (United States)
Civil Analyst
October 2020—October 2022

Verified by
Nicholas Eugene Lamek
nick.lamek@kimley-horn.com

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

TASKS

I have worked full-time as a Civil Analyst at Kimley-Horn under the supervision of a licensed Nevada Professional Engineer in the major branch of Civil Engineering. My role is primarily in solar facility land development, but I have also worked in a drainage and water resources capacity.

At Kimley-Horn, I use AutoCAD and Civil 3D to develop civil land development plans for industrial solar facilities. Initially, I was responsible for designing road layouts within these proposed solar facilities. I was tasked with providing these layouts for sites in multiple states. As such, I familiarized myself with local regulations and ordinances for each project location. This included property setbacks, fire road requirements, and vegetation screening requirements, among other constraints. I calculated road turning radii to ensure that the large vehicles used in the construction of solar sites could adequately navigate the property.

As my experience grew, I was tasked with considering drainage aspects of solar sites. I analyzed flow patterns throughout the site and used them to determine locations where silt fence, earth dikes, fiber rolls, and rip-rap rock outlets would be needed. Once my familiarity with hydrology increased, I began helping to develop drainage studies for a variety of land development projects. This involved using HEC-1 to determine local hydrology and performing hydrologic calculations. I determined both existing and proposed drainage patterns.

From a day-to-day standpoint, I now perform the aforementioned tasks in addition to producing plan sets with the use of AutoCAD. This includes identifying or producing appropriate construction details in order to ensure the sites are constructed in a safe, legal, and ethical manner. Every day, I am responsible for adequately identifying local building ordinances, determining drainage patterns, and clearly communicating my designs through technical reports and civil improvement plan sets.

REPRESENTATIVE PROJECTS

Jackpot Solar (October 2020-May 2021)

The first major project that I worked on was Jackpot Solar in Twin Falls County, Idaho. I started working on the project in October 2020 and continued through May 2021. For this project, I worked on preliminary site analysis. In AutoCAD, I designed road paths to ensure adequate access to panel arrays and inverters. These roads could not cross or extend into existing wetlands, easements, or setbacks. Moreover, I designed these road paths to be able to accommodate the large trucks that are used during the construction and maintenance of the solar site. This included designing turnarounds and hammerheads to allow adequate space for these trucks to turn around in crucial locations within the site. I also designed, using my analysis of onsite drainage patterns, areas where silt fence or earth dike was needed to mitigate erosion impacts offsite. I designed what I judged to be the most economical paths for roads, fences, and erosion control measures that still complied with all constraints.

DP Miner's Mesa (May 2021-October 2021)

DP Miner's Mesa is a land development project in Clark County, Nevada. I worked on this project from May 2021 to October 2021. For this project, I prepared the technical drainage study. I researched the drainage studies for surrounding sites in order to develop the existing conditions of the site. I analyzed the site's existing and finished grade drainage patterns in order to determine onsite drainage basins. I used HEC-1 software and rational method hydrology to calculate the 10 and 100-year storm outfalls from both onsite and offsite basins. I analyzed the site's hydrologic characteristics for the existing, interim, and post development phases. Using these three development conditions, I calculated and specified onsite hydraulics. I designed curb inlets to convey onsite flows. Additionally, I determined pipe and culvert sizes to divert flows. I communicated my findings and designs in a technical drainage study.

Mammoth North Solar (August 2021-Present)

As the name might suggest, Mammoth North Solar in Starke County, Indiana is one of the largest projects that I have worked on. I

started working on this project in August 2021. The project is ongoing, but I submitted the Issued for Permit (IFP) plan set in November of 2021. For this project, I researched county, state, and federal requirements in conjunction with survey information to determine which portions of the property could be built upon. From there, I worked with a panel layout provided by an electrical engineering team to determine the most efficient paths of access roads throughout the site. I also designed the path of the security fences surrounding the site. Next, I analyzed drainage patterns across the site to determine locations where silt fence, earth dike, fiber roll, or other erosion control systems are needed. I then performed the grading analysis for the site using Civil 3D software. For this grading, I had to determine maximum slopes and deflections for the solar panels while keeping the site generally balanced between cut and fill. Lastly, I created and annotated a plan set to effectively communicate my designs to our clients and to local reviewers.

Eland II (January 2022 - Present)

Another large solar facility project that I worked on was Eland II Solar. I started working on this project in January 2022 and I have continued working on it to the present day. This project is located near California City in Kern County, California. For this project, I analyzed the site's topography and performed grading analysis for the site. I designed the site grading to conform with local jurisdictional requirements as well as for constructability. I also analyzed this site's drainage patterns to design silt fence, earth dike, retention basins, and other erosion control measures. As with Mammoth North Solar, I designed the access roads and fences within the site to conform to all governmental requirements as well as to be economical. I also performed a pile analysis, which involved creating unique parameters/formulas to show how much flood and scour will occur during a 100-year storm event at each solar panel pile location. This was used to design pile lengths in order to mitigate the effects of flood and scour on the site.

ADDITIONAL INFORMATION



QUESTIONS

Has your original license lapsed? If yes, explain.

No

Have you ever been denied licensure by a jurisdiction? If yes, explain.

No

Have you ever been convicted of a misdemeanor? If yes, explain.

No

Have you ever been convicted of a felony? If yes, provide a brief letter of explanation and court documents.

No

Select the disciplines in which you are currently practicing. If more than 1% of time is devoted to a discipline, it must be included.

Disciplines

Civil

Other Disciplines

Has a jurisdiction ever revoked, suspended, or disciplined your license? (Please note this includes a consent agreement, letter of reprimand, Etc.) If the action has been resolved a yes answer is still needed.

No

GUSTAVO GUERRA-GUERRERO (18-184-99)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
10/05/2022

Citizenship
Venezuela

SUMMARY



Engineering Experience
after EAC degree

Total Engineering
Experience
4 years

Experience under licensed
engineer
4 years

Other Experience
5 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering
University of Carabobo
July 2010–July 2016

EXAMS



Fundamentals of Engineering (FE)
California
November 2018

Principles and Practice of Engineering (PE)
Civil
California
October 2020



LICENSES



Additional Licenses
None

GUSTAVO GUERRA-GUERRERO (18-184-99)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Optitrans Civil Engineering
California (United States)
Design Engineer
June 2017—March 2018

Verified by
Gustavo Guerra-Guerrero (Self)

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



TASKS

Design engineer responsible for the design and preparation of civil plans for a variety of projects related to the geometric design of urban and rural roadway/highways. I designed grading plans and haul mass diagrams to estimate the costs of cuts and fills using InRoads software. I prepared recommendations of profiles and superelevation diagrams for each section designated in the scope of work. I was responsible for the geometric design, construction feasibility, and cost analysis of a variety of highway/roadway design projects working under the supervision of a registered engineer.

100% of my duties were engineering.



REPRESENTATIVE PROJECTS

Geometric Highway design -Los Angeles World Airports I-405/La Cienega Boulevard Ramps at the New 98th Street connection, Los Angeles, CA

2017-2018

I served as a design engineer responsible for the geometrical design of the ramp and highway expansion. I prepared recommendations of superelevation diagrams, profiles, haul mass diagrams, horizontal geometric design, and construction feasibility.

GUSTAVO GUERRA-GUERRERO (18-184-99)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

RCS Cooperation
North Carolina (United States)
Senior Drafter
April 2018—September 2018

Verified by

Experience Summary

Full-Time

Other: 5 months

Experience under licensed surveyor:

None



DESCRIPTION

GUSTAVO GUERRA-GUERRERO (18-184-99)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

EN ENGINEERING
California (United States)
Senior Design Engineer
October 2018—October 2022

Verified by
Alejandro Martinez
amartinez@enengineering.com

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



TASKS

As the lead engineer, I design civil components for natural gas and electrical infrastructure projects, I determine the adequacy of geotechnical data required for foundation designs. I design retaining walls and excavation support systems, foundations for mechanical and electrical equipment, and pipe structural supports. I analyze construction feasibility, sizing, and routing of natural gas pipelines. I prepare grading plans and cut/fill estimates for site improvements. I compute quantities and prepare estimates for construction costs. I also help to establish right-of-way needs and coordinated utility relocations as needed.

100% of my duties involved engineering experience.



REPRESENTATIVE PROJECTS

1) SWG – System Improvement South Lake Tahoe, CA, USA

2019-2022

As the project engineer, I was in charge of the design of natural gas transmission and distribution civil components of the project such as structural pipe supports, excavation support systems, and equipment and structures foundations. I verified existing as-built conditions, prepared an estimate on construction cost, and completed engineering calculations related to pipe sizing, location, and method of installation such as horizontal directional drilling borings.

2) System Improvement Pipe Replacement, Pacific Gas & Electric - San Ramon, CA, USA

2018-2019

As the project engineer, I designed structural pipe supports, retaining walls, and excavation support systems, I designed mass grading options using Civil 3D software. I calculated the amount of cut and fill associated with different layout options to determine which option would provide the best benefit for the associated cost, I determined the adequacy of geotechnical data required for foundation designs.

GUSTAVO GUERRA-GUERRERO (18-184-99)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



QUESTIONS

Has your original license lapsed? If yes, explain.

No

Have you ever been denied licensure by a jurisdiction? If yes, explain.

No

Have you ever been convicted of a misdemeanor? If yes, explain.

No

Have you ever been convicted of a felony? If yes, provide a brief letter of explanation and court documents.

No

Select the disciplines in which you are currently practicing. If more than 1% of time is devoted to a discipline, it must be included.

Disciplines

Civil, Electrical (Power), Mechanical, Surveying, Structural

Other Disciplines

Has a jurisdiction ever revoked, suspended, or disciplined your license? (Please note this includes a consent agreement, letter of reprimand, Etc.) If the action has been resolved a yes answer is still needed.

No

GUSTAVO GUERRA-GUERRERO (18-184-99)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS


Start Date	End Date	Reason	Explanation
07/2009	06/2010	Unemployed	Unemployment. Transition from high school to college
08/2016	05/2017	Unemployed	Unemployment based on country (home) relocation

SNEHA HAJARE (20-588-19)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL


 Applying To
Nevada

Application Type
Initial - PE

Application Date
10/03/2022

Citizenship
India



SUMMARY


 Engineering Experience
after EAC degree

Total Engineering
Experience
2 years, 8 months

Experience under licensed
engineer
2 years, 8 months

Disciplinary Action
None reported




EDUCATION

 Bachelors in Civil Engineering
University of Pune - Savitribai Phule Pune University
August 2014–May 2018

Masters in Civil Engineering
North Carolina State University
August 2018–December 2019

EXAMS

 Fundamentals of Engineering (FE)
North Carolina
October 2019

Principles and Practice of Engineering (PE)
Civil
Nevada
October 2021

LICENSES

 Additional Licenses
None

SNEHA HAJARE (20-588-19)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Burke Construction Group, Inc.
Nevada (United States)
Project Engineer/VDC Coordinator
February 2020—October 2022

Verified by
Thad Lawrence
TLAWRENCE@BURKECGI.COM

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



TASKS

- Analyze survey reports, maps, drawings, blueprints, aerial photography, or other topographical or geologic data.
- Researching and implementing various technological solutions
- Direct engineering activities, ensuring compliance with environmental, safety, or other governmental regulations.
- Estimate quantities and cost of materials, equipment, or labor to determine project feasibility.
- Generated 4D master schedule for all the structure to visualize the sequence in construction
- Identify environmental risks and develop risk management strategies for various construction projects.
- Inspect project sites to monitor progress and ensure conformance to design specifications and safety or sanitation standards.
- Prepare or present reports for owners on construction progress
- Provide technical advice to industrial or managerial personnel regarding design, construction, program modifications, or structural repairs.
- Compare the drawings and field execution of drawings/details, in order to generate RFIs to design teams.
- Review and keep track of workflow of submittals and RFIs
- Check compliance of OSHA regulations on jobsite
- Conducted model based design reviews with design team and client representative.
- Coordinate WELL and Green Globe certification requirements for the project.



REPRESENTATIVE PROJECTS

Uncommons (Commercial/Residential Phase 1) –

The first of its kind in Las Vegas, a new 40-acre project which includes 2 office buildings, 2 parking structures, food beverage hall and 5 retail buildings. I was the project engineer on this project, where I performed the design and construction coordination.

During the Design coordination with the design team of the project I performed clash detection using the 3D model and different available construction software such as Navisworks, Revit and AutoCAD. I was able to develop the framework for setting the model of record and assessed the impacts of differences between survey data or field condition with the digital data. Once the design is completed by the engineers and consultants in the digital 3D model, I performed clash detection analysis with different element of structural, MEP models. During the meetings with the Architect, Structural, MEP consultants, I utilized clash review tools and recommended the solutions to the team for managing and streamlining the coordination process. By identifying these problem areas and evaluating the possible solutions before the construction helped the design team to provide a good and accurate drawings for the construction team.

When coordinating during the design phase, I developed and executed the BIM execution plan. I worked with the project

manager, superintendents in managing the construction coordination phase to determine the scope, cost and schedule constraints.

As a young and growing VDC coordinator, I researched latest technological advances in construction industry and brought the Burke team on board for new photo documentation system such as StructionSite.

The residential part of the project included 3 luxury apartment buildings with more than 350 dwellings which is currently on going known as Uncommons Phase II.

I have worked as Project Engineer during the entire construction phase of commercial and residential phase 1. My main duty is to help in continuing construction activities on time by coordinating and working with subcontractors on schedules and their scope of work. I, as a project engineer for a general contractor, keep track of all the submittals and RFIs provided by sub-contractors, this responsibility includes procuring all the submittals/RFIs on time from subcontractors, review all the questions from subcontractors before submitting to architect and other consultants for approval. I reviewed all the drawings and details which helps in answering many of the questions/RFIs from subcontractors and adding proper references for Architects/consultants on submittals/RFIs for the ease of their review. I suggested field solutions under supervision of superintendent and manger to expedite the responses from the designing team on RFIs/submittals.

I conducted OAC (Owner, Architect and Contractor) meetings. In these weekly meetings, I make sure all the critical issues regarding the design intent are discussed and answered to keep the project on schedule. If any delays are noted, I make sure those are reflected in schedule.

I reviewed WELL certification criteria and recommended the owner to meet those requirements, to achieve the project certification on the office buildings. To acquire the globes on the Green Globe certification for our owner, I reviewed the GG criteria with the consultant for the required documentation in terms of commissioning of MEP equipment and recycling reports.

I kept a track of construction activities by walking the sites with Superintendent and creating the weekly progress report of project. As a licensed drone professional, I conduct aerial surveys of the site to keep up with the growing demand of clients.

Other task I perform is making sure that the subcontractors and workers follow necessary OSHA regulations while on site.

SNEHA HAJARE (20-588-19)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Burke Construction Group, Inc.
Nevada (United States)
Project Engineer/VDC Coordinator
February 2020 – October 2022

Verified by
Jonathan Kaino Buckley
jbuckley@miyamotointernational.com

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



TASKS

- Direct engineering activities, ensuring compliance with environmental, safety, or other governmental regulations.
- Inspect project sites to monitor progress and ensure conformance to design specifications and safety or sanitation standards.
- Prepare or present videos and reports for construction progress to consultants' review on progress.
- Provide technical advice to industrial or managerial personnel regarding design, construction, program modifications, or structural repairs.
- Compare the drawings and field execution of drawings/details, to generate RFIs to design teams.
- Review and keep track of workflow of submittals and RFIs
- Conduct model-based design reviews with design team and client representative.
- Check structural shop drawings and RFI in depth, review all design members/details and provide inputs before sending it to SEOR.
- Revisit SEOR reviewed shop drawings/RFIs to understand response and verify execution in field.



REPRESENTATIVE PROJECTS

Uncommons (Commercial Phase 1) –

- The first of its kind in Las Vegas, a new 40-acre project which includes 2 office buildings, 2 parking structures, food beverage hall and 5 retail buildings. I was the project engineer on this project, where I performed the design and construction coordination.

- I have worked as Project Engineer where my work was reviewed by SEOR and Burke Construction Group during the phase of commercial phase 1.

- I reviewed all the structural shop drawings in detail to check for subcontractor's questions before sending it to SEOR. I thoroughly reviewed all structural shop drawings such as structural steel shop drawings, concrete mix design, concrete reinforcement drawings, embeds shop drawings, product data etc. For example, In structural steel shop drawings, I verified all the member sizes, connection details, top of steel elevations, number of studs on composite beams etc. as a plan and shop drawing reviewer for Burke. Similarly in concrete mix design, rebar shop drawings and all other shop drawings I verified if everything is per structural drawings. I checked deferred submittals and calculations for various items such as interior/exterior stud walls, stairs and the connections to structure, mechanical/electrical equipment anchorage to main structure etc. For an example in stud wall deferred submittal, I used to check dead loads, interior wind pressure loads, verify the stud sizes to confirm architectural design intent etc. I used to review connection details of the studs, kickers/braces of interior/exterior stud walls, stair stringers etc. to check slip allowance in the connection detail to main structure, which makes sure the structural design intent is satisfied. Once this review is performed, I send the submittals to SEOR with comments from my and subcontractor's review. Once I receive a reviewed submittal back from SEOR, I go through the shop drawings/deferred submittal once again to understand and confirm the design intent. After my review I contacted the structural designer to go through all the comments and understand the reason behind it. I verified all the mentioned comments have been incorporated in the execution of those shop drawings.

- Other than these I was responsible for coordinating with SEOR for virtual site walks. Based on the drawings, I used to provide

detailed videos for all the structural related items especially focusing on elements of lateral force resisting systems. After reviewing these videos and reports SEOR provided site walk report, I made sure that all the discrepancies noted on structural site walk reports are taken care of on the site. Once the corrections are made on site, I used to send updated photos and videos back to SEOR for conformance of the work.

ADDITIONAL INFORMATION

? QUESTIONS

Has your original license lapsed? If yes, explain.

No

Have you ever been denied licensure by a jurisdiction? If yes, explain.

No

Have you ever been convicted of a misdemeanor? If yes, explain.

No

Have you ever been convicted of a felony? If yes, provide a brief letter of explanation and court documents.

No

Select the disciplines in which you are currently practicing. If more than 1% of time is devoted to a discipline, it must be included.

Disciplines

Civil, Other

Other Disciplines

Construction

Has a jurisdiction ever revoked, suspended, or disciplined your license? (Please note this includes a consent agreement, letter of reprimand, Etc.) If the action has been resolved a yes answer is still needed.

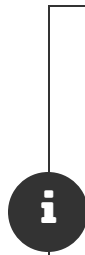
No

TREVOR KULL (17-505-64)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
09/21/2022

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
2 years, 3 months

Total Engineering
Experience
2 years, 3 months

Experience under licensed
engineer
2 years, 3 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering (EAC)
California Polytechnic State University, San Luis Obispo
September 2013–June 2018

Masters in Civil and Environmental Engineering
University of Nevada, Reno
September 2019–December 2020



EXAMS



Fundamentals of Engineering (FE)
California
October 2018

Principles and Practice of Engineering (PE)
Civil
California
April 2021

LICENSES



Additional Licenses
None

TREVOR KULL (17-505-64)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

NV5
California (United States)
Staff Engineer
June 2018—September 2019

Verified by
Jason Wheelock Muir
jason.muir@nv5.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

I performed geotechnical investigations that included trench and boring logs, AutoCAD drafting, seismic refraction/ReMi survey, and slope stability analysis. I authored geotechnical reports, and performed field work for said investigations.

I performed liquid level floor surveys to determine settlement progress over time, and to determine if foundation underpinning was necessary. I used these surveys to create high-resolution topographic maps using AutoDesk Civil 3D.

I observed footing excavations, retaining walls, and other structures to check conformance with our plans.

I designed temporary shoring and permanent retaining walls.

I reviewed plan submittals and managed projects and budgets.

I responded to client queries about previous geotechnical reports, wrote proposals, and answered any client questions/concerns.

REPRESENTATIVE PROJECTS

Table Mountain Casino -- For this project, we designed several ultra block mechanically stabilized earth walls as well as a large soil nail wall. I performed calculations and drafted the design the MSE walls under the supervision of a geotechnical engineer. I chose the geogrid type and length and responded to submittal reviews and RFIs from the contractor.

June Lake Gazex Cannons -- For this project, we designed new footings or retrofitted existing footings for Gazex avalanche cannons near June Lake in California. I performed calculations and drafted the footing designs and their anchor bolt length and size. I also visited the site in order to take measurements for retrofitting some of the existing footings.

Echo Summit Gazex Cannons -- For this project, we designed new footings or retrofitted existing footings for Gazex avalanche cannons near Echo Lake on Echo Summit in California. I performed calculations and drafted the footing designs and their anchor bolt length and size. I also visited the site in order to take measurements for retrofitting some of the existing footings.

Kate Hardy Mine Bridge -- For this project, we designed a steel beam bridge for the proposed re-opening of Kate Hardy Mine in California. The bridge was 80 feet long and was required to handle HS93 loading as well as an 80,000lb excavator. I used AISC 14 to design the steel girders, welds, and cross-braces between girders. Additionally I analyzed the steel plate decking to ensure stability. I performed all calculations and drafting for this design under the supervision of a geotechnical engineer.

Sierra Commons Apartments -- For this project, we performed a site investigation and liquid floor level survey to determine the cause and magnitude of settlement in the building and to provide mitigation recommendations. I performed the field work, drafting, and authored the summary letter.

13037 Golden Trout Way -- For this project, we performed a site investigation for a retaining wall replacement in a residential driveway. The 6' tall, 100' long wood post and lagging wall was failing. I performed the site investigation, calculations, drafting, and design of the replacement wood post and lagging wall. I also authored the summary letter and walked the client through the contractor selection and bidding process.

TREVOR KULL (17-505-64)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

NV5
California (United States)
Staff Engineer
June 2021 – September 2022

Verified by
Jason Wheelock Muir
jason.muir@nv5.com

Experience Summary
Part-Time
Engineering: 1 year (75%)
Post EAC degree: 1 year (75%)
**Experience under licensed engineer:
1 year**

TASKS

I worked in the field for the entire summer on the PGE Exchequer-Yosemite High Voltage Transmission Tower Replacement Project as a on-site staff engineer. I was responsible for observation of drilling, footing excavations, steel reinforcement. I was also responsible for proof and performance testing rock bolts up to 300 kips.

My current responsibilities include geotechnical investigations, geotechnical reporting, retaining wall design, reinforced concrete design, structural steel design, and other miscellaneous projects. My tasks are 95% engineering related, and the other 5% include non billable tasks such as online training seminars, reviewing invoices, and correspondence with clients and contractors.

REPRESENTATIVE PROJECTS

Folsom Ranch Conspan -- For this project, we were tasked with designing 2 30' tall ultra block mechanically stabilized earth walls, 8 reinforced concrete pilasters/columns, and the reinforced concrete coping and cap beam. I used ASCE 7-16 as well as ACI 318-19 to calculate the demand and resistance of each reinforced concrete structural component. I performed the drafting and calculations for other components of the project with the assistance of another staff engineer. I performed 80% of this work. I compiled a submittal package with sheets from several different entities for a submittal to the county. I responded to structural comments from the city review, and approved submittals and shop drawings from the contractor.

Folsom Ranch Conspan Vehicle Barrier -- This project was added to the original Folsom Ranch Conspan (described above) as a separate project. I was tasked with designing a reinforced concrete vehicle barrier that satisfies AASHTO test load criteria 2 (TL-2). I used ACI 318-14 and AASHTO procedures to provide barrier dimensions and steel reinforcement schedule for the barrier design.

Yolo County Landfill -- For this project, I was tasked with performing a liquid level floor survey and peer review of a distressed concrete slab for a lawsuit. The concrete slab was heavily cracked and we were hired to determine who was at fault. We determined that the slab cracked due to an absence of saw-cut contraction joints and construction joints. The slab was 100'x200' and was placed without any joints. A second phase of this project involved peer reviewing a slab design for a slab that had not yet been constructed. This slab had contraction and construction joints, but there were inadequate dowels between these joints to provide full shear transfer. I recommended that they increase their number and size of dowels in both their construction and saw-cut contraction joints to comply with chapter 5 and 6 of ACI 360-10.

PGE Exchequer-Yosemite High Voltage Transmission Tower Replacement Project -- I was responsible for observing footing excavations and steel reinforcement of a portion of the 70 transmission tower footings that were placed for the project. Additionally, I was responsible for observing the drilling operations and determining an appropriate hole depth and bond length for the rock bolt anchors that tied the footing to the slope. As one of the three on-site engineers for this project, I corresponded with PGE and Outback Contractors, Inc. to overcome unforeseen challenges during construction. This often required variation from the approved plan set and real-time engineering judgement without cell phone service or other means of communication. Additionally, I was one of the two on-site engineers responsible for proof and performance testing every rock bolt in each transmission tower foundation. I created proof and performance test reports in excel from measurements gathered in the field.

Contra Costa County ECCID Temporary Culvert Shoring Support -- For this project a 30' section of a 10'x10' box culvert was modified, and I designed a temporary shoring system to support the culvert during construction. I calculated demands on the box culvert from lateral earth pressures, traffic surcharges, etc. I then calculated the factored resistance of the box culvert to these forces and compared to the demands to confirm our design was adequate. We used a system of shoring post jacks in vertical and horizontal orientations to resist the vertical and lateral earth pressure and surcharge forces, respectively.

ADDITIONAL INFORMATION



QUESTIONS

Has your original license lapsed? If yes, explain.

No

Have you ever been denied licensure by a jurisdiction? If yes, explain.

No

Have you ever been convicted of a misdemeanor? If yes, explain.

No

Have you ever been convicted of a felony? If yes, provide a brief letter of explanation and court documents.

No

Select the disciplines in which you are currently practicing. If more than 1% of time is devoted to a discipline, it must be included.

Disciplines

Civil, Structural

Other Disciplines

Has a jurisdiction ever revoked, suspended, or disciplined your license? (Please note this includes a consent agreement, letter of reprimand, Etc.) If the action has been resolved a yes answer is still needed.

No

JAY PATEL (22-463-51)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL


 Applying To **Nevada**

Application Type **Initial - PE**

Application Date **09/15/2022**

Citizenship **Canada**

SUMMARY



 Engineering Experience after EAC degree



Total Engineering Experience **5 years, 1 month**

Experience under licensed engineer


- PE Supervision: 11 months
- PEng Supervision: 4 years 2 months

Disciplinary Action **None reported**


 

EDUCATION

 Meets NCEES Engineering Education Standard

Bachelors in Environmental Engineering (Water Resources)
University of Waterloo
September 2012–June 2017

EXAMS

 Fundamentals of Engineering (FE)
California
February 2022

Principles and Practice of Engineering (PE)
Civil
California
August 2022

LICENSES

 Additional Licenses **None**

JAY PATEL (22-463-51)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

City of Brampton
Ontario (Canada)
Assistant Capital Works Inspector
September 2013 – December 2013

Verified by
Jay Patel (Self)

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



TASKS

An an intern, I assisted with quantity takeoffs for Road Widening and Road Resurfacing projects. My objective was to ensure compliance with Request for Proposal (RFP) specifications. On a daily basis, I conducted site visits, took photos, and monitored various aspects of the construction work including utility locate surveys (SUE), culvert replacement, catchbasin relocation, granular placement, asphalt paving and compaction tests.



REPRESENTATIVE PROJECTS

Chinguacousy Road Widening Project - I monitored and documented site activities such as granular and asphalt placement, culvert installation and concrete pour to assist with quantity takeoffs. I supported the Capital Works Inspector by conducting daily site visits. I kept daily site logs which were then used to approve progress payments to the general contractor.

JAY PATEL (22-463-51)

All work experience reviewed by two licensed professionals

755 E Nees Avenue
PO Box 25291
Fresno, CA 93729

WORK EXPERIENCE

Oza Inspections Ltd.
Ontario (Canada)
Pre-Condition Survey Inspector and
Seismic Technician
May 2014—August 2014

Verified by
Jay Patel (Self)

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



TASKS

I travelled to road construction sites all across Southern Ontario - Niagara, Barrie, Delhi, Brantford, Kingston etc. to inspect residential and commercial properties directly abutting roadwork. I also travelled to construction sites with a seismograph to monitor vibration from heavy equipment - sheet-piling, compaction etc. to ensure they were within acceptable levels.



REPRESENTATIVE PROJECTS

As a condition surveyor, I documented and photographed pre-existing condition defects such as wall cracks, roof damage etc. (exterior and interior) of all structures directly abutting the road construction site. For historical buildings, I monitored vibration from construction equipment to ensure levels were within acceptable municipal limits (60 decibels or less).

WORK EXPERIENCE

*Region of Peel
Ontario (Canada)
Assistant Technical Analyst
January 2015—April 2015*

*Verified by
Travis Richards
Travis.Richards@peelregion.ca*

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



TASKS

As a coop student, I helped the Technical Analyst update the Waste Collection Design Standards Manual. My other task involved reviewing land development applications within the Region of Peel to check for compliance with the Regional Waste Collection Design Standards Manual. I attended weekly meetings with the internal Planning group to discuss Waste Collection design requirements and provide comments on the ongoing development applications.



REPRESENTATIVE PROJECTS

Waste Collection Design Standards Manual Update - I researched Design Standards for Waste Collection from nearby municipalities and created a list of references for use. My primary objective was to gather input from internal stakeholders and assist my supervisor to update the existing Waste Collection Manual. I developed my communication and technical writing skills through this project and consistent feedback from my supervisor.

WORK EXPERIENCE

*Region of Peel
Ontario (Canada)
Assistant Technical Analyst
September 2015 – December 2015*

*Verified by
Travis Richards
Travis.Richards@peelregion.ca*

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



TASKS

As a coop student, I prepared business case reports for Mixed Waste Processing and Refuse-Derived Fuel facilities, to generate cost-savings. My other task involved reviewing land development applications within the Region of Peel to check for compliance with the Regional Waste Collection Design Standards Manual. I attended weekly meetings with the internal Planning group to discuss Waste Collection design requirements and provide comments on the ongoing development applications.



REPRESENTATIVE PROJECTS

Anaerobic Digestion Facility Feasibility Study - Under the guidance of my supervisor, I organized a waste audit of organic waste collected at the Region's Material Recovery Facility. The purpose of this audit was to collect field data, which can be provided to potential consultants during the Request for Proposal phase of the project. I learned about various methods of procurement, which include Design-Build and Design-Bid-Build. I also provided support to develop a scope of work for potential consultants.

WORK EXPERIENCE

AECOM
Ontario (Canada)
Structural Co-op Student
October 2017 – February 2018

Verified by
Kevin Thach Duong
Kevin.Duong@aecom.com

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



TASKS

As a resident field engineer for 4 months, I conducted pre-condition inspections of over 100 properties abutting the Algonquin Highway. I communicated with property owners via phone, email and in-person, to gain permission to photograph existing conditions. I documented existing structural defects such as exterior wall cracks and noted the location of utility service connections at each property. I drafted a pre-condition survey report for each property owner.



REPRESENTATIVE PROJECTS

I conducted a pre-condition inspection of all properties abutting a Highway Road Construction project. I developed and implemented a safe work plan to inspect properties, photograph existing conditions or defects, and document results in a brief condition report. I traveled to a remote city in Northern Ontario, Canada and actively communicated with property owners via phone, email and in-person. I followed a communication protocol to keep my project manager informed of field conditions and successfully completed the assignment in a period of 4 months.

WORK EXPERIENCE

AECOM
Ontario (Canada)
Water Resources EIT
March 2018—June 2019

Verified by
Ken Luong
KLuong@morrisonhershfield.com

Experience Summary
Full-Time
Engineering: 1 year, 3 months
Experience under licensed engineer:
None



TASKS

My role as an Engineer-in-Training was to support senior staff with preliminary and detail design projects. I was assigned to a variety of stormwater/drainage related projects that allowed me to gain field experience, and learn about hydraulics and hydrology. I also developed proficiency with a variety of software suites that include AutoCAD Civil 3D, ArcGIS, PCSWMM and Visual OTTHYMO. I developed plan and profile exhibits in CAD, produced Master Plan figures in GIS and created hydraulic models in SWMM. My tasks include but were not limited to: site grading in CAD, drafting design plans in CAD, developing hydraulic and hydrology models from GIS data, conducting culvert inspections and technical report writing.



REPRESENTATIVE PROJECTS

Municipal Projects: Develop Basement Flooding Remediation Plans for a study area located in the City of Toronto.

- Under the guidance of the project manager, I developed conceptual design plans for over 100 stormwater and wastewater capital improvement projects.
- The capital improvement projects were based on hydraulic modeling results provided by a senior engineer. These projects consisted of new pipes or ditches, pipe upsizing, outfall upgrades and new storage tanks.
- I created concept designs using GIS for each project and collected feedback from various disciplines - Geotechnical, Archaeology, Environment etc. Project constraints from all internal disciplines were reviewed and incorporated into the concept designs.
- I assessed each project to develop a list of constructability constraints. Example- site located near a school, stormwater utility vertical conflict with sanitary main from MH1 to MH2 etc.
- I assisted the Project Manager with delivery of Technical Memorandum No. 7 - Concept Design of Alternatives.

WORK EXPERIENCE

WSP
Ontario (Canada)
Project Engineer
June 2019—July 2021

Verified by
Michael Levin
Michael.Levin@wsp.com

Experience Summary
Full-Time
Engineering: 2 years, 1 month
Experience under licensed engineer:
None



TASKS

As an engineer-in-training, I supported senior staff with projects related to hydraulic modeling of stormwater and wastewater systems. I progressed into a project engineer role and assisted with the delivery of stormwater and wastewater master plans for local municipalities in British Columbia. I developed proficiency with hydrologic and hydraulic modeling software and eventually started mentoring junior staff.



REPRESENTATIVE PROJECTS

Project: Stormwater and Sanitary Master Plans for local municipalities

I was responsible for the model development, system evaluation and capital planning phases of these projects. I also assisted with technical report writing to complete the master plan reports. I reviewed GIS data to develop or update hydraulic models and address outstanding data gaps related to inverts. In cases where the project scope included model calibration, I provided support to the project manager to select appropriate sites, implement a flow monitoring program and calibrate hydraulic models (RTK or Nash-Sutcliffe Method). I performed a system evaluation to identify existing deficiencies and improvements required for the planning horizon.

Project: Wastewater Servicing Studies to accommodate Future Development

My specific tasks were to review developer plans, estimate wastewater flows and evaluate wastewater system capacity using municipal design criteria. For these projects, the developer plans typically provided information regarding population or building footprint. I used this information to estimate wastewater flows based on typical land use factors or per capita rates. These flows were then assigned as a point load to the nearest manhole in the hydraulic model. A system-wide evaluation was performed to assess capacity and provide recommendations for capital improvements, if any. I also assisted with documenting the modeling approach and results in a technical memorandum.

WORK EXPERIENCE

Akel Engineering
California (United States)
Water Resources Engineer
October 2021 – September 2022

Verified by
Tony A Akel
TAkel@akeleng.com

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



TASKS

My tasks and duties involve hydraulic modeling of stormwater, wastewater, water and recycled water systems for local utilities. I am responsible for model development, calibration, capacity/fire flow analysis, capital improvement plans and technical reports. I also assist with business development opportunities, when needed.



REPRESENTATIVE PROJECTS

Project 1: Wastewater Collection System Master Plan

As part of a wastewater master plan project, I developed a hydraulic model of the existing collection system from available GIS database and record drawings. I supported a comprehensive flow monitoring program that captured wastewater flows from 30 locations across the system and completed hydraulic model calibration. I demonstrated my technical writing skills by preparing deliverables for the hydraulic model development and calibration phases of the project. I am also assisting with the preparation of the final master plan, which will include subsequent capacity evaluation and capital improvement recommendations.

Project 2: Recycled Water System Hydraulic Analysis

As the primary resource, I reviewed the legacy hydraulic model provided by the client and made the necessary physical updates needed to represent the existing recycled water system. I was also responsible for reviewing available recycled water consumption records and updating demand patterns to reflect current user trends. I then created a future scenario with new users and demand patterns approved by the client. Under guidance from senior staff, I completed a thorough capacity evaluation of the recycled water system and developed a list of capital improvements. Currently, I am in the process of preparing a technical report to document the hydraulic analysis and results.

ADDITIONAL INFORMATION

? QUESTIONS

Has your original license lapsed? If yes, explain.

No

Have you ever been denied licensure by a jurisdiction? If yes, explain.

No

Have you ever been convicted of a misdemeanor? If yes, explain.

No

Have you ever been convicted of a felony? If yes, provide a brief letter of explanation and court documents.

No

Select the disciplines in which you are currently practicing. If more than 1% of time is devoted to a discipline, it must be included.

Disciplines

Civil, Environmental

Other Disciplines

Has a jurisdiction ever revoked, suspended, or disciplined your license? (Please note this includes a consent agreement, letter of reprimand, Etc.) If the action has been resolved a yes answer is still needed.

No

Electrical

ALLAN PINEDA (17-668-79)

All work experience reviewed by two licensed professionals

DISCIPLINE: ELECTRICAL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
09/30/2022

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
4 years, 11 months

Total Engineering
Experience
4 years, 11 months

Experience under licensed
engineer
2 years, 10 months

Other Experience
1 year, 3 months

Disciplinary Action
None reported



EDUCATION



Associates in Science
College of Southern Nevada
January 2014–August 2015

Bachelors in Electrical Engineering (EAC)
University of Nevada, Las Vegas
August 2014–May 2017



EXAMS



Fundamentals of Engineering (FE)
Nevada
December 2019

Principles and Practice of Engineering (PE)
Electrical & Computer
Nevada
August 2022

LICENSES



Additional Licenses
None

ALLAN PINEDA (17-668-79)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

United States Army (Active Duty)
Kentucky (United States)
Supply Specialist
September 2009—January 2013

Verified by
Allan Pineda (Self)

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



TASKS

- I Provided technical guidance and trained lower grade personnel with problem solving.
- I Improved processes in receiving, inspection, inventories, loading, unloading, segregation, storage, delivery and turns in organization and installation supplies and equipment.
- I Maintained automated supply system for accounting of organizational and installation supplies and equipment that saved the company thousands of dollars.
- I Posted transactions to organizational and installation property books and supporting transaction files.



REPRESENTATIVE PROJECTS

- I Provided technical guidance and trained lower grade personnel with problem solving.
- I Improved processes in receiving, inspection, inventories, loading, unloading, segregation, storage, delivery and turns in organization and installation supplies and equipment.
- I Maintained automated supply system for accounting of organizational and installation supplies and equipment that saved the company thousands of dollars.
- I Posted transactions to organizational and installation property books and supporting transaction files.

ALLAN PINEDA (17-668-79)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

United State Army Reserve
Nevada (United States)
Supply Specialist
January 2013—December 2017

Verified by
Angel Sosa Fernandez
angel.sosafernandez.mil@mail.mil

Experience Summary
Part-Time
Other: 1 year, 3 months (25%)
Experience under licensed surveyor:
None



TASKS

- I Provided technical guidance and trained lower grade personnel with problem solving.
- I Improved processes in receiving, inspection, inventories, loading, unloading, segregation, storage, delivery and turns in organization and installation supplies and equipment.
- I Maintained automated supply system for accounting of organizational and installation supplies and equipment that saved the company thousands of dollars.
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REPRESENTATIVE PROJECTS

- I Provided technical guidance and trained lower grade personnel with problem solving.
- I Improved processes in receiving, inspection, inventories, loading, unloading, segregation, storage, delivery and turns in organization and installation supplies and equipment.
- I Maintained automated supply system for accounting of organizational and installation supplies and equipment that saved the company thousands of dollars.
- I Posted transactions to organizational and installation property books and supporting transaction files.

ALLAN PINEDA (17-668-79)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

TRC COMPANY
Pennsylvania (United States)
COMMISSIONING ENGINEER
(SUBSTATION)
September 2017—October 2019

Verified by
Katie Bleiler
kbleiler@trccompanies.com

Experience Summary
Full-Time
Engineering: 2 years, 1 month
Post EAC degree: 2 years, 1 month
Experience under licensed engineer:
None

TASKS

- Provide field engineering services and technical support for construction, testing and commissioning of substation equipment associated with relay protection, control equipment and SCADA system.
- Acts as a Resident Engineer on projects of any magnitude and takes lead role in resolving electrical construction problems to ensure intended operations of equipment.
- Interprets complex plans and specifications and applies available information to ensure that all project design requirements and schedules are satisfied.
- Plans, performs and documents the commissioning of various control and power circuits to ensure operation and safety of equipment's and personnel's.

REPRESENTATIVE PROJECTS

- Replacement of old 220kV OCB breaker into a new 220kV SF6 breaker with a new relay setting. (Athena Substation: PSE&G).
 - Conducted on site design or investigation work to ensure intended operations.
 - Prepared and implemented the outage plans to remove the old breaker.
 - Developed isolation plans, cutover plans, jumper schemes and demo plans to prevent unintended operations.
 - Supervised electricians and technicians to wire breaker, relays equipment and panels according to the prints.
 - Supervised point-to-point checks as a preemptive troubleshooting tool before functional tests.
 - Conducted a functional test operations to a new 220kV SF6 breaker, relays and other equipment to ensure its intended operations.
 - Prepared and implemented energization plan to put the new breaker into service.
 - Revised the prints to reflect the as-built and the field changes.
- Installation of new two 345kV Siemens Reactor with 345kV SF6 breaker protection. (Marion: PSE&G).
 - Conducted on site design or investigation work to ensure intended operations.
 - Prepared and implemented the outage plans to commission 345kV reactor and SF6 breaker protections.
 - Supervised electricians and technicians to wire the reactor, breakers, relays equipment and panels according to the prints.
 - Supervised point-to-point checks as a preemptive troubleshooting tool before functional tests.
 - Conducted a functional test operations to a new 345kV reactor, SF6 breakers, relays and other equipment to ensure its intended operations.
 - Prepared and implemented energization plan to put the new reactor and breakers into service.
 - Revised the prints to reflect the as-built and the field changes.
- Substation upgrade from 69kV into 138kV/69kV substation.
 - Conducted on site design or investigation work to ensure intended operations.
 - Prepared and implemented the outage plans to add two 138kV/69kV transformer bank.
 - Developed isolation plans, cutover plans, jumper schemes and demo plans.
 - Supervised electricians and technicians to wire breaker, transformers, relays equipment and panels according to the prints.
 - Supervised point-to-point checks as a preemptive troubleshooting tool before functional tests.
 - Conducted a functional test operations to two new transformers and SF6 breakers, relays and other equipment to ensure its intended operations.
 - Prepared and implemented energization plan to put the substation back into service.
 - Revised the prints to reflect the as-built and the field changes.
- Replacement of old 115kV OCB breaker into new 115kV SF6 breaker.
 - Conducted on site design or investigation work to ensure intended operations.

- Prepared and implemented the outage plans to remove the old breaker.
 - Developed isolation plans, cutover plans, jumper schemes and demo plans to remove the old breaker without unintended operations.
 - Supervised electricians and technicians to wire breaker and panels according to the prints.
 - Supervised point-to-point checks as a preemptive troubleshooting tool before functional tests.
 - Conducted a functional test operations to a new 115kV SF6 breaker and other equipment to ensure its intended operations.
 - Prepared and implemented energization plan to put the new breaker into service.
 - Revised the prints to reflect the as-built and the field changes.
-
- Installations of two new 115kV Capacitor Bank with new relay protection.
 - Conducted on site design or investigation work to ensure intended operations.
 - Prepared and implemented the outage plans to install new Capacitor bank.
 - Developed isolation plans, cutover plans, and jumper schemes to install new capacitor bank and its relays.
 - Supervised electricians and technicians to wire breaker, relays equipment and panels according to the prints.
 - Supervised point-to-point checks as a preemptive troubleshooting tool before functional tests.
 - Conducted a functional test operations to a new capacitor bank SF6 breaker, relays and other equipment to ensure its intended operations.
 - Prepared and implemented energization plan to put the capacitor bank into service.
 - Revised the prints to reflect the as-built and the field changes.

ALLAN PINEDA (17-668-79)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

NV Energy
Nevada (United States)
System Protection Engineer
October 2019—August 2022

Verified by
Tony Hoang Nguyen
tonynguyen.pe@icloud.com

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

TASKS

- Serves as a lead engineer on assigned projects.
- Provides engineering assistance and recommendations to the field offices on system protection and power system related issues to ensure proper system operation and design consistency.
- Responsible for system protection engineering associated with electrical protective relay systems for transmission and distribution systems with emphasis on quality and project costs.
- Conduct short circuit analysis, load flow, and fault studies to ensure the reliable and secure operation of protective systems.
- Investigate and analyze transmission system disturbances and relay operations to determine root cause and recommend system improvements.
- Direct maintenance personnel in the installation, verification, and upgrade of substation protection, communication and control equipment.
- Support system operation personnel's during outages and emergencies with analysis of digital fault data and relay sequence of operations review.

REPRESENTATIVE PROJECTS

- Multiple Substation Relay Maintenance Review such as Mayfair, Summerlin, Lorenzi, Lindquist etc. : Las Vegas Nevada 10/19/2019 to 2022.
 - I conducted short circuit analysis and reviewed system protection to ensure proper system operation.
 - I provided field support in the installation, verification, testing, and upgrades of all substation protection equipment.
- RFL 9300 relay change out 230kV Line between Arden and Bighorn: Las Vegas : 07/27/2020
 - I conducted short circuit analysis, relay coordination, and fault studies to ensure reliable and secure operation of protective systems.
- Carey to North Las Vegas Line Panel Upgrade: North Las Vegas: 11/18/2020.
 - I conducted short circuit analysis and fault studies to ensure a reliable and secure operation of protective systems.
 - I interfaced new primary and back up protection relay to existing RTU to provide situational awareness to SCADA personnel.
 - I provided field support in installation, verification, and trouble shooting to field personnel that led to a successful energization of the line.
- Valley View Capacitor Bank Relay Protection and Port server Upgrades: Valley View Las Vegas: 12/30/2020.
 - I conducted voltage unbalance analysis and calculated the pick up values for capacitor bank protection to ensure safe and normal system operation.
- Burnham Automation and Line Panel Upgrade: Burnham Las Vegas: 03/25/2021.
 - I conducted short circuit analysis and was responsible in the design of system protection.
 - I programmed all associated relays and interfaced all IED (Intelligence Electronic Device) to Real time automation controller (RTAC) for distribution automation and SCADA system.
 - I provided field support in commissioning relays and communication equipment that led to successful operation of the system.
- Multiple Relay Recommendation Project such as Carey to Winter-wood line protection upgrades, Beltway bank #3 addition, Lincoln capacitor bank addition with automation, Nellis telemetry addition, etc.. : Las Vegas Nevada 06/01/2021 to 2022.
 - I provided relay recommendations to the field offices on system protection for transmission and distribution system with emphasis on quality and project cost.

- Northwest MODICON Upgrades: Northwest Las Vegas: 10/12/2021.
 - I replaced the existing old RTU and installed a new SEL 3555 protection RTU and SEL 3530 Telecom RTU to provide a better situational awareness to system SCADA.
 - I interfaced all 230/138kV microprocessor protection relays into the new RTU with emphasis on physical and cyber security NERC/CIP requirement.
 - I provided field support in installation, verification, and upgrades of new communication equipment to field personnel.

- Decatur Capacitor Bank Relay Protection Upgrades: Decatur Las Vegas: 05/19/2022.
 - I conducted voltage unbalance analysis and calculated the pick up values for capacitor bank protection to ensure safe and normal system operation.
 - I programmed and interfaced all associated protection relays which includes new protection for capacitor bank into port server SEL 2030 and interfaced all IED to Remote Terminal Unit for SCADA system.

- Commissioning of Transformer Bank #3 at Beltway: Beltway Las Vegas Nevada: 06/24/22.
 - I was responsible in providing system protection design for the new bank and implemented automation for reliability purposes.
 - I programmed the new RTU and interfaced all distribution microprocessor relays to the new RTU
 - I served as lead engineer and provided field support in commissioning and testing of all relays to ensure proper system operation and design consistency.

ALLAN PINEDA (17-668-79)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



QUESTIONS

Has your original license lapsed? If yes, explain.

No

Have you ever been denied licensure by a jurisdiction? If yes, explain.

No

Have you ever been convicted of a misdemeanor? If yes, explain.

No

Have you ever been convicted of a felony? If yes, provide a brief letter of explanation and court documents.

No

Select the disciplines in which you are currently practicing. If more than 1% of time is devoted to a discipline, it must be included.

Disciplines

Electrical (Computer), Electrical (Power)

Other Disciplines

Has a jurisdiction ever revoked, suspended, or disciplined your license? (Please note this includes a consent agreement, letter of reprimand, Etc.) If the action has been resolved a yes answer is still needed.

No

ALLAN PINEDA (17-668-79)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

Start Date	End Date	Reason	Explanation
06/2003	08/2009	Unemployed	I was living outside United States during this time.

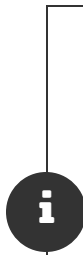
Mechanical

DANIEL BERGER (19-910-89)

All work experience reviewed by two licensed professionals

DISCIPLINE: MECHANICAL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
09/13/2022

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
11 years, 9 months

Total Engineering
Experience
16 years, 8 months

Experience under licensed
engineer
8 years, 11 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Mechanical Engineering (EAC)
University of Nevada, Reno
August 2005–December 2010

WAIVER REQUEST: NRS 625.193(1)(A) WAIVER OF
FE WITH 15 OR MORE YEARS OF EXPERIENCE.

EXAMS



Principles and Practice of Engineering (PE)
Mechanical
Nevada
August 2022

Waived Fundamentals of Engineering (FE)
Nevada
September 2022



LICENSES



Additional Licenses
None

DANIEL BERGER (19-910-89)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

CR Engineering
Nevada (United States)
Mechanical HVAC Designer
January 2006—May 2015

Verified by
Chun Wing Lee
chun@cr-eng.com

Experience Summary
Full-Time
Engineering: 9 years, 4 months
Post EAC degree: 4 years, 5 months
Experience under licensed engineer:
1 year, 7 months

TASKS

- 1) Responsible for managing my own projects
- 2) Collaborated with a variety of disciplines to complete jobs
- 3) Running load simulations for buildings to determine the appropriate equipment
- 4) Selecting/Scheduling Heating, Ventilation, and Air Conditioning (HVAC) equipment
- 5) Completed a Revit 2012 intermediate training class
- 6) Responsible for reviewing other designers work for accuracy

REPRESENTATIVE PROJECTS

Kate Smith Elementary School (2006-2007)

- 1) Selected equipment as follows: Boilers, System Pumps, Boiler Injection Pumps, Fan Coils, Air/Dirt Separator, Expansion Tank, Chemical Feed Tank
- 2) Design responsibilities as follows: Pump head calculation, Building load calculation, Outside air calculation, Combustion air calculation, Hydronic supply/return pipe sizing, Ductwork design
- 3) Close coordination with external disciplines like electrical, structural, and architectural.

Lyon County School District Gym HVAC Remodel (2007-2009)

- 1) Assisted in the mechanical design of four school gym remodel
- 2) Design responsibilities as follows: Building load calculation, Outside air calculation, Ductwork design, Mechanical piping design

Squeeze Inn TI (2009-2010)

- 1) Restaurant and Kitchen Mechanical Design
- 2) Selected equipment as follows: Kitchen Exhaust Fan, General Exhaust Fan, Rooftop Unit, Make-up Air Unit, Kitchen Hood
- 2) Design responsibilities as follows: Building load calculation, Outside air calculation, Kitchen airflow matrix, Ductwork design

Dr. Reken TI (2010-2011)

- 1) Project Type: Permanent Hair Removal Laser Clinic Mechanical and Plumbing Design
- 2) Selected equipment as follows: Rooftop Unit, Water Heater, Exhaust Fans
- 3) Design responsibilities as follows: Building load calculation, Outside air calculation, Water calculation, Ductwork design

Round Mountain Public Safety Building (2011-2012)

- 1) Project Type: Public Safety and Fire Station Mechanical and Plumbing Design
- 2) Selected equipment as follows: Furnaces, Evaporator Coil, Condensing Unit, Unit Heater, Water Heater
- 3) Design responsibilities as follows: Natural ventilation calculation, Combustion air calculation, Building load calculation, Outside air calculation, Pipe sizing including liquid propane gas, Ductwork design.

Yerington Wells Fargo Bank (2012-2013)

- 1) Project Type: Bank Mechanical Design
- 2) Selected equipment as follows: Furnace, Evaporator Coil, and Condensing Unit
- 3) Design responsibilities as follows: Building load calculation, Outside air calculation, Gas pipe sizing, Ductwork design

BVA TI (2013-2014)

- 1) Project Type: Warehouse Office Mechanical and Plumbing Design
- 2) Selected equipment as follows: Furnaces, Evaporator Coil, Condensing Unit, Unit Heater, Water Heater
- 3) Design responsibilities as follows: Building load calculation, Outside air calculation, Ductwork Design

Alamo Office Building (2014-2015)

1) Project Type: Office Building Mechanical Design

2) Selected equipment as follows: Fan Coil, Heat Pump

3) Design responsibilities as follows: Building load calculation, Outside air calculation, Ductwork design

DANIEL BERGER (19-910-89)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

MMI Engineering
Nevada (United States)
Mechanical HVAC Designer
May 2015—November 2018

Verified by
Matt Myres
Matt.Myres@kimley-horn.com

Experience Summary
Full-Time
Engineering: 3 years, 6 months
Post EAC degree: 3 years, 6 months
Experience under licensed engineer:
3 years, 6 months

TASKS

Reviewing initial scope of work and assist and establishing the direction of the design, review drawings and specifications for accuracy from schematic design through to the construction documents, provide close coordination with multi-discipline teams, responsible for designing and drafting using AutoCAD and/or BIM software, general design of HVAC and plumbing systems, responsible for managing my own projects, collaborate with a variety of disciplines to complete jobs, run load simulations calculations for buildings to determine the appropriate building loads and equipment selections, run calculations to determine capacity and sizing requirements for domestic plumbing systems, provide schedules, specifications and construction details for the HVAC and plumbing designs, responsible for reviewing other designers work for accuracy and initial quality control checks.

REPRESENTATIVE PROJECTS

Hillside Apartments (2015-2016)

I designed the HVAC and plumbing systems for a multifamily apartment complex. I personally performed the building load calculation and used that information to select a Gas fired package rooftop unit for the office area and fan coil and condensing unit split systems for the apartment. After my selection of the HVAC unit, I designed the ductwork and associated air terminals. I then performed the exhaust air calculation to determine the minimum amount required to size the exhaust fans. I tallied up the water supply fixture units (WSFU) to determine the correct domestic water pipe size to the building and all branch piping. I then used the manufacturer's software to size the appropriate water heaters to serve each unit and the office fixtures. My duties included a supervisory role for younger staff to train them in multifamily design aspects.

Common Sense Botanicals (2016-2017)

I designed the HVAC and plumbing systems for a retail store and commercial greenhouse. I personally performed the building load calculations, hydronic boiler plant system selections with radiant flooring with the greenhouse, CSI specifications, code interpretation, multidiscipline coordination, and Building Information Modeling (BIM) coordination with other disciplines. I analyzed the feasibility of a ground source heat pump to give direction to the client. I then used the ASHRAE water heater sizing calculation method to size a heater exchange with a domestic hot water storage tank to meet the facilities domestic hot water requirements. I also calculated the hot water return pump size and then used that flow to determine the hot water return pipe sizes to all branches of the building with circuit setters to balance the flow. My duties included a supervisory role for younger staff to train them in boiler, pumping, and radiant flooring designs.

Pershing County General Hospital HVAC Upgrades (2017-2018)

I designed the HVAC and fire protection systems for a hospital. I personally designed the system wide rework of the low-pressure low-temperature steam piping and condensate return piping system, selection of steam traps with integral malfunction alarm systems tied into the building management system, construction cost estimate calculation, and a building load calculation. I then used that information to select the new steam convectors and steam fan coils. I also developed a fire riser piping diagram compliant with the appropriate NFPA codes. My duties included a supervisory role for younger staff to train them in fire protection and steam systems.

DANIEL BERGER (19-910-89)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Kimley Horn and Associates
Nevada (United States)
Mechanical Engineering Professional
November 2018—September 2022

Verified by
Matthew C Myres
Matt.Myres@kimley-horn.com

Experience Summary
Full-Time
Engineering: 3 years, 10 months
Post EAC degree: 3 years, 10 months
Experience under licensed engineer:
3 years, 10 months

TASKS

With 16 years of mechanical system consulting experience specializing in HVAC, plumbing, and fire protection performance designs on a variety of projects including industrial, educational, commercial, governmental, health care, multi-family, and institutional sites. With an extensive knowledge of boiler/chiller hydronic systems and their associated air side systems, I am responsible for the design of energy efficient systems to fit any building's needs. I regularly perform mechanical system scope analysis and recommendation as well as feasibility studies/building assessments. I efficiently produce permittable, biddable, and constructible designs, including all calculations, while regularly coordinating with multidisciplinary teams, including owners, architects, contractors, and vendors. I am proficient at preparing equipment selections, book specifications, and cost estimates; and regularly perform submittal review and construction administration on design projects. For everything from a new building design to an emergency retrofit of an existing building, I have the experience and skillset necessary to guide projects from conceptual schematic through successful completion and closeout.

REPRESENTATIVE PROJECTS

Rec. Campus (2018-2019)

I personally performed the building load calculation and outside air calculation and used that information to select the heat pump package rooftop units and mini-splits systems for the IT rooms. After my selection of the rooftop units with airflows dictated by the load calculation, I then designed the ductwork and associated air terminals. I then performed the exhaust air calculation to determine the minimum amount required to size the exhaust fans. I tallied up the water supply fixture units (WSFU) to determine the correct domestic water pipe size to the building and all branch piping. I then used the manufacturer's software to size the appropriate water heaters to serve a locker room with showers and various office type plumbing fixtures. I also calculated the hot water return pump size and then used that flow to determine the hot water return pipe sizes to all branches of the building with circuit setters to balance the flow. My duties included a supervisory role for younger staff to train them in designing a recreation center and a pool equipment room with special class 1 division 2 design aspects.

NV Museum Boiler (2019-2020)

I analyzed all the equipment in the boiler room to calculate the appropriate heat gain to the space. I then used that information to calculate the required exhaust fan flow (CFM) based ambient outside temperatures. I reviewed the entire heating hot water system to confirm my condensing boiler selections backchecked by the load calculation I performed. I also reviewed the entire heating hot water system piping to run a hydronic pump head and flow calculation to confirm the existing boiler being replaced as part of this project were adequately sized. I developed a custom flue design to route up an existing chase. I calculated the required amount of combustion air, water fill pressure setting for the pressure reducing valve (PRV), air changes per hour, and the construction cost estimate for the client. My duties included a supervisory role for younger staff to train them in boiler room and pumping designs.

NDOT Tonopah Boiler (2020-2021)

I personally performed the building load calculation and used that information to select new condensing boilers and unit heaters to replace the existing steam boiler system. As part of this project, I had to design an all-new heating hot water supply and return system and size the appropriate inline pumps with variable frequency drives (VFD). I analyzed all the equipment in the boiler room to calculate the appropriate heat gain to the space. I then used that information to calculate the required exhaust fan flow (CFM) based ambient outside temperatures. The client required the installation of new propane tanks. I sized the tanks based on the client's request for longer fill intervals and new boiler plant fuel consumption rates. I also performed a combustion air calculation to size the required wall louvers and a water volume calculation to size the thermal expansion tank. My duties included a supervisory role for younger staff to train them in boiler, pumping, and control integration to state systems.

Bank Designs (2021-2022)

I personally performed the building load calculation and outside air calculation and used that information to select the gas fired package rooftop units and mini-splits systems for the IT room, lobby, and, safe. After my selection of the rooftop units with airflows dictated by the load calculation, I then designed the ductwork and associated air terminals in accordance with the client's design guidelines. I laid out the gas piping and used the International Plumbing Code (IPC) to size the piping based on the connected loads. I then used the manufacturer's software to size the appropriate water heater to serve a variety of office plumbing fixtures. I had to analyze the complete HVAC and Plumbing system to fill out the appropriate LEED compliance basis of design forms. My duties included a supervisory role for younger staff to train them in working on national client projects with strict design guidelines.

DANIEL BERGER (19-910-89)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



QUESTIONS

Has your original license lapsed? If yes, explain.

No

Have you ever been denied licensure by a jurisdiction? If yes, explain.

No

Have you ever been convicted of a misdemeanor? If yes, explain.

No

Have you ever been convicted of a felony? If yes, provide a brief letter of explanation and court documents.

No

Select the disciplines in which you are currently practicing. If more than 1% of time is devoted to a discipline, it must be included.

Disciplines

Mechanical

Other Disciplines

Has a jurisdiction ever revoked, suspended, or disciplined your license? (Please note this includes a consent agreement, letter of reprimand, Etc.) If the action has been resolved a yes answer is still needed.

No

DANIEL BERGER (19-910-89)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS


Start Date	End Date	Reason	Explanation
06/2004	07/2005	Unemployed	I was living with my parent and attending a community college before I transferred up to the University of Nevada Reno.

COURTNEY WITTRIG (19-451-43)


All work experience reviewed by two licensed professionals





DISCIPLINE: MECHANICAL

GENERAL


 Applying To **Nevada**
Application Type **Initial - PE**
Application Date **10/06/2022**
Citizenship **United States**

SUMMARY


 Engineering Experience after EAC degree **5 years, 3 months**
Total Engineering Experience **5 years, 3 months**
Experience under licensed engineer **3 years, 10 months**
Other Experience **3 years, 3 months**
Disciplinary Action **None reported**


 
 

EDUCATION

 Bachelors in Mechanical Engineering (EAC)
California State University, Long Beach
August 2011–May 2016

EXAMS

 Fundamentals of Engineering (FE)
Nevada
December 2020
Principles and Practice of Engineering (PE)
Mechanical
Nevada
June 2022



LICENSES

 Additional Licenses
None

COURTNEY WITTRIG (19-451-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Stater Brothers
California (United States)
Courtesy Clerk, Stocker
June 2011 – March 2016

Verified by

Experience Summary

Part-Time

Other: 2 years, 5 months (50%)

Experience under licensed surveyor:

None



DESCRIPTION

COURTNEY WITTRIG (19-451-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

*Tusk and Consultants
Nevada (United States)
Sales*
July 2016—January 2017

Verified by

Experience Summary

Full-Time

Other: 6 months

Experience under licensed surveyor:

None



DESCRIPTION

COURTNEY WITTRIG (19-451-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

B&B Hospitality Group
Nevada (United States)
Lead Hostess
September 2016—May 2017

Verified by

Experience Summary

Full-Time

Other: 8 months

Experience under licensed surveyor:

None



DESCRIPTION

COURTNEY WITTRIG (19-451-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

TJK Consulting Engineers
Nevada (United States)
Designer 1
May 2017—October 2018

Verified by
Kayleigh Hasshaw
kayleighhasshaw@gmail.com

Experience Summary
Full-Time
Engineering: 1 year, 5 months
Post EAC degree: 1 year, 5 months
Experience under licensed engineer:
None



TASKS

Performing load and ventilation calculations for HVAC design. Design packages from schematic design through construction documents. Support through the construction of the project including equipment and material submittals, requests for information and punch walks to ensure that the design was met and completed.



REPRESENTATIVE PROJECTS

JD Smith Middle School (Las Vegas, NV) 5/2017-10/2018: I designed a complete multi-zone system from the SD phase through CD phase and I coordinated with all disciplines including architectural, electrical, plumbing and structural. I performed and updated calculations as the project progressed and changed. I drafted all designs in revit. Large middle school rebuild. 5 separate buildings, unsure of square footages.

City of Henderson Fire Station #91 (Henderson, NV) 10/2017-5/2018: I design a complete HVAC system (including DX units and swamp coolers) that will allow for multiple fire crews to be in the fire house at the same time. Separating critical areas from living spaces. I assisted in designing a complete truck exhaust system with the help of other trades to ensure the safety of the fire crew. I ensured the design met LEED Gold standards. I drafted all designs in autoCAD. I performed and updated calculations as the project progressed and changed. 10,890 sq. ft. project.

Sunrise skilled nursing facility (Las Vegas, NV) 8/2017-10/2018: I design a complete HVAC system using VRV systems coupled with dedicated outdoor air units. I coordinated with other trades as needed. I performed and updated calculations as the project progressed and changed. I drafted the design in revit. 49,247 sq. ft. project.

COURTNEY WITTRIG (19-451-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

MSA Engineering Consultants
Nevada (United States)
Engineer in Training
October 2018—April 2021

Verified by
Dustin Thomas Hart
Dustin.t.hart@imegcorp.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

Designing HVAC and Plumbing systems for restaurants, hotels, and various commercial applications. Assisting in the design of a packaged central plant for specific projects and continuing to grow my knowledge in the HVAC and Plumbing industry. Reviewing submittals, answering RFI's, and walking sites to verify that construction goes as planned and assures that clients receive their project in the time frame that they need.

REPRESENTATIVE PROJECTS

Raiders Training Facility (Las Vegas, NV) 10/2018 - 05/2020: I assisted in the design of a 3 story office building and indoor football field. I updated calculations as changes were made through design. I drafted all designs in revit for mechanical and assisted with minor plumbing changes. I attended site walks for regular checks on the project as well as to answer RFI's. I assisted in reviewing submittals. 135,000-square-foot office area, along with a 150,000-square-foot field house

Osage Casino tower addition (Tulsa, OK) 8/2019-6/2020: I design a complete HVAC system using VRV systems coupled with dedicated outdoor air units. I coordinated with other trades as needed. I performed and updated calculations as the project progressed and changed. I drafted the design in AutoCAD. 145 hotel room addition unsure of exact square footage for this project.

Majordomo Meat and Fish Restaurant (Las Vegas, NV) 7/2019-1/2020: I designed and reused existing equipment where possible for the restaurant as well as incorporated property requirements such as the proper use of a pollution control unit. I designed the plumbing for the space as well, also reusing as much as possible. I attended weekly meetings and regular site walks to ensure that construction stayed on track. I answered RFI's and reviewed submittals. 11,000 square foot project.

Resorts World Theater (Las Vegas, NV) (01/2020 - 04/2021): I performed calculations and maintained an up to date calculation as the project evolved. I designed and sized all ductwork and piping from the units to the spaces that they serve. I worked with a senior project manager to ensure that the design was correct and met all sound levels required for a theater. I coordinated with various trades to ensure that construction went smoothly. This is a 5000 seat theater with multiple levels of support spaces unsure of the exact square footage.

COURTNEY WITTRIG (19-451-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

*Bear Label Consulting Engineers
Nevada (United States)
Designer
April 2021 – August 2022*

Verified by
Matthew Steinmetz
msteinmetz@bearlabelce.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

Designing HVAC and Plumbing systems for restaurants, hotels, and various commercial applications. Assisting in the design of a packaged central plant for specific projects and continuing to grow my knowledge in the HVAC and Plumbing industry. Reviewing submittals, answering RFI's, and walking sites to verify that construction goes as planned and assures that clients receive their project in the time frame that they need. I have worked on projects in 7 different states so I have learned to navigate different building code requirements along with different county wide codes.



REPRESENTATIVE PROJECTS

Caesars Entry Restaurant (Las Vegas, NV) 08/2021 - 08/2022: I assisted in the design of a remodeled restaurant inside caesars palace. I performed and updated calculations as changes were made through design. I drafted all designs in revit for mechanical. I attended predesign site walks on the project as well as to answer bidding RFI's. I attended weekly virtual design meetings to ensure that I was always up to date on design changes to come. 6,500 square foot project.

Caesars Headquarters office remodel (Las Vegas, NV) 04/2021 - 08/2022: I assisted in the design of remodeled corporate office suites inside caesars palace over two phases. I performed and updated calculations as changes were made through design. I drafted all designs in revit for HVAC and mechanical piping. I attended a predesign site walk on the project as well as to answer RFI's and review submittals. Approximately 170,000 square foot project.

Hollywood Casino Remodels (Various states) (04/2021 - 08/2022: I assisted in the design of remodeled restaurants and new gaming terraces for various Hollywood casino properties in the US. I performed and updated calculations as changes were made through design. I drafted all designs in revit or CAD depending on the architectural design requirements. I answer RFI's and review submittals as they come in on each project. 3,000 - 8,000 square foot range for projects.

COURTNEY WITTRIG (19-451-43)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



QUESTIONS

Has your original license lapsed? If yes, explain.

No

Have you ever been denied licensure by a jurisdiction? If yes, explain.

No

Have you ever been convicted of a misdemeanor? If yes, explain.

No

Have you ever been convicted of a felony? If yes, provide a brief letter of explanation and court documents.

No

Select the disciplines in which you are currently practicing. If more than 1% of time is devoted to a discipline, it must be included.

Disciplines

Mechanical

Other Disciplines

Has a jurisdiction ever revoked, suspended, or disciplined your license? (Please note this includes a consent agreement, letter of reprimand, Etc.) If the action has been resolved a yes answer is still needed.

No

6. Public Comment

7. Adjournment