

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



**SPECIAL BOARD MEETING
AUGUST 12, 2021
Reno, NV**

1. Meeting Call to Order

2. Pledge of Allegiance

3. Public Comment

4. NRS/NAC 625 Waiver Requests

[no waiver requests]

5. Non-Appearance Applications for Initial Licensure

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

| DEGREE | YEARS CREDIT (MAX) | YEARS ACCEPTABLE EXPERIENCE REQUIRED |
|--|-------------------------------|---|
| Undergraduate (BS): ABET/EAC accredited | 4 | 4 |
| Undergraduate (BS): ABET/ETAC accredited | 4 | 4 |
| Undergraduate (BS): ABET/CAC accredited | 4 | 4 |
| Undergraduate (BS): ABET/ANSAC accredited | 4 | 4 |
| Undergraduate (BS Engineering): ABET equivalent ie Washington Accord | 4 | 4 |
| Undergraduate (BS Engineering): Not ABET accredited | 4 | 6 |
| Undergraduate (BS Construction Management): ABET accredited | 4 | 4 |
| Undergraduate (BS Construction Management): Not ABET accredited | 4 | 6 |
| Undergraduate (BS Engineering): not ABET equivalent | 2 | 8 |
| Engineering Masters: US with non-accredited BS/MS | 6 | 2 |
| Engineering Masters & Doctorate: US with non- accredited BS/MS | 6 | 2 |
| ABET engineering degree in specific discipline – experience and/or exam in another discipline | 4 | 4 |

*Special Consideration – deficiencies to be reviewed by the Board.

Civil

RYAN BEAVERS (18-005-19)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
08/03/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
4 years, 1 month

Total Engineering
Experience
4 years, 1 month

Experience under licensed
engineer
4 years, 1 month

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering (EAC)
University of Alabama, Tuscaloosa
August 2013–May 2017

REFERENCES



EXAMS



Fundamentals of Engineering (FE)
Alabama
April 2017

Principles and Practice of Engineering (PE)
Civil
Nevada
October 2019

LICENSES



Additional Licenses
None

WORK EXPERIENCE

Taney Engineering
Nevada (United States)
Civil Engineering Designer II
July 2017 – August 2021

Verified by
Brian Eugene Myers
brianm@taneycorp.com

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

TASKS

I work mostly in Water Resources Engineering, and as an Engineering Designer II I am tasked with putting together full improvement plans sets. This includes creating a grading plan for a Technical Drainage Study, creating plan and profile sheets, drawing cross section grading details based on the grading plans, designing utilities including Water, Sanitary Sewer, and Storm Drain, and creating traffic sheets.

For the grading plan, I create surfaces in Civil 3D that demonstrate the flow of water through the project site. I primarily work on Residential projects, so I set finish floor elevations, and I make sure the water can flow through our site. I then take cross sections at specific locations on the site and draw the cross sections to get a better view of how the site is designed. I also create profile views for all of the centerlines of the roads on the site to demonstrate any grade breaks or vertical curves. I use corridors, points, and feature lines in order to create an accurate surface to show the proposed grades and elevations.

For the utility plans, I utilize pipe networks and pressure networks in order to create a plan for water and sewer for our projects. I collaborate with the entities to create solutions for conflicts with separations and design constraints.

On traffic plans I lay out the planned striping and label where proposed street signs are to be located. I also design the underground streetlight conduit locations and streetlight locations. I label all of the stations for the proposed streetlights and the fire hydrants as well.

REPRESENTATIVE PROJECTS

1. Bermuda & Pyle

This project is a 15-lot subdivision located at the southwest corner of the intersection of Bermuda Rd & Pyle Ave in Las Vegas. We were tasked with designing full improvement plans. The project was started in 2017 and finished in 2019. I was the Designer 1 on this project, so I designed a portion of the grading plan, I created the traffic plan, plan and profiles, and I designed the utilities for this project.

2. Buffalo & Russell

This project is an 18-lot subdivision that is located south of the southeast corner of the intersection of Buffalo Dr and Russell Rd in Las Vegas. We were tasked with designing full improvement plans. The project was started in 2019 and finished in 2021. I was the lead designer on this project, so I designed the grading of the project. I also designed the utilities for this project and completed the rest of the planset. One issue that came up during the design process was that the Sanitary sewer that we were connecting into was very shallow, and the pipe would not have adequate clearance from the existing storm drain in Buffalo Dr. The solution that I came up with was to run the sewer up Buffalo Dr and connect at the intersection with Russell where the sewer was much deeper which alleviated the issue.

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

KYLE BRINKMAN (17-555-78)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
07/15/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
4 years, 2 months

Total Engineering
Experience
4 years, 2 months

Experience under licensed
engineer
4 years, 2 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering (EAC)
Arizona State University
August 2013–May 2017

EXAMS



Fundamentals of Engineering (FE)
California
August 2017

Principles and Practice of Engineering (PE)
Civil
California
April 2018



LICENSES



Additional Licenses
None

KYLE BRINKMAN (17-555-78)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

BKF Engineers
California (United States)
Project Engineer
May 2017—July 2021

Verified by
Patrick Chan
pchan@bkf.com

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

TASKS

As a design engineer (May 2017 - December 2019), I was responsible for completing day to day tasks including site layout, grading, utility and storm water design to create entitlement / construction drawings for land development and public improvement projects. Under the guidance of a supervisor, I prepared technical reports and memorandums to justify design elements such as utility improvements, hydrology, FEMA flood coordination, and Storm Water Control Plans. I have prepared calculations for specific design elements such as earthwork modeling and utility pipe sizing.

As a project engineer (December 2019 - Present), I have been and am currently the lead designer and point of contact on multiple land development projects. My day to day tasks include leading a team of drafters and design engineers, overseeing overall site design, attending coordination meetings with municipalities and other consultants, and managing project budgets.

As an office surveyor (May 2017 - Present), I have been and am currently responsible for the preparation of mapping instruments including ALTA Surveys, Easements, Lot Line Adjustments, Parcel / Final Maps, and Record of Surveys. My day to days tasks have included existing condition and land title research, preparing field surveying line-out packages, and resolving property boundaries based on gathered information. Additionally, I have been responsible for preparing Tentative Maps to entitle land subdivisions in coordination with the land development projects I also support as a civil engineer.

REPRESENTATIVE PROJECTS

(2015 - 2019) - 3333 Scott Campus, Santa Clara, CA - Staff office land surveyor preparing mapping instruments (Recorded Easements, 2 Parcel Maps)

(2015 - 2019) - Cityline, Sunnyvale, CA - Staff design engineer for the design and entitlement of three (3) residential sites, permitting of public street improvements; Staff office land surveyor preparing mapping instruments (Recorded Easements, Lot Line Adjustment)

(2015 - Present) - Applied Materials, Santa Clara / Sunnyvale, CA - Lead civil engineer for design and permitting site improvements for multiple commercial tenant improvements; Lead office land surveyor preparing mapping instruments (Recorded Easements)

(2015 - Present) - Juniper Networks Campus, Sunnyvale, CA - Lead civil engineer for the design and permitting of private roadway and site improvements; Lead office land surveyor preparing mapping instruments (Recorded Easements, Lot Line Adjustment)

(2015 - Present) - Lockheed Martin, Sunnyvale, CA - Lead civil engineer for the design and permitting of private roadway and site improvements; Lead office land surveyor preparing mapping instruments (Recorded Easements, Lot Line Adjustment)

(2015-2019) - Moffett Towers II, Sunnyvale, CA - Staff design engineer for the design and permitting of 80+ acre commercial development; Lead office land surveyor preparing mapping instruments (Recorded Easements, 2 Parcel Maps)

(2016 - 2019) - 1120 Innovation Hotel, Sunnyvale, CA - Lead civil engineer for design and permitting of on-site and off-site improvements for a new hotel; Lead office land surveyor preparing mapping instruments (Recorded Easements, Lot Line Adjustment)

(2017 - 2018) - Coresite, Santa Clara, CA - Lead civil engineer for design and permitting off-site improvements

(2018 - Present) - CONFIDENTIAL, Santa Clara, CA - Lead civil engineer for design and permitting of large-scale parking

improvement projects

(2018 - Present) - Home2Suites, Petaluma, CA - Staff civil engineer for design and permitting of a new hotel

(2018 - 2020) - 445-465 N Mary Avenue, Sunnyvale, CA - Lead office land surveyor preparing mapping instruments (Recorded Easements, Parcel Map)

(2019 - Present) - 18920 Forge Drive, Cupertino, CA - Lead civil engineer for design and permitting site improvements for a commercial tenant improvement

(2019 - Present) - 22690 Stevens Creek Blvd, Cupertino, CA - Lead civil engineer for the entitlement of nine (9) town houses and public street improvements

(2020 - Present) - 1700 Dell Avenue, Campbell - Lead civil engineer for design and permitting site improvements for one (1) mid-rise commercial office building

(2020 - Present) - Gateway Crossings, Santa Clara, CA - Lead civil engineer for design and permitting site improvements for two (2) mid-rise residential buildings

KYLE BRINKMAN (17-555-78)

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.

Yes, Consumption of alcohol under age 21

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

HUMBERTO FRANCO-RIVAS (14-052-64)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL


 Applying To **Nevada**

Application Type
Initial - PE

Application Date
07/28/2021

Citizenship
United States



SUMMARY



 Engineering Experience after EAC degree
7 years

Total Engineering Experience
8 years, 3 months

Experience under licensed engineer
8 years, 3 months

Disciplinary Action
None reported


 

EDUCATION

 Bachelors in Civil Engineering (EAC)
University of Nevada, Las Vegas
August 2009–May 2014

EXAMS

 Fundamentals of Engineering (FE)
Nevada
June 2017

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



LICENSES

 Additional Licenses
None

HUMBERTO FRANCO-RIVAS (14-052-64)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

GCW Inc
Nevada (United States)
Project Assistant (Intern)
October 2012—December 2013

Verified by
Joshua Lee Johnson
josh.johnson@westwoodps.com

Experience Summary
Part-Time
Engineering: 11 months (75%)
Experience under licensed engineer:
11 months



TASKS

From October 2012 to December 2013, I worked as a Project Assistant/Intern, I worked under the Summerlin Team a division of Land Development for G.C Wallace, under that team I was able to due roadway improvement plans that dealt with all various type of design that included, but not limited to Grading, Storm Drain, Sewer, Water, and Traffic design. Most of Summerlin Village 23B were compose of different roadway packages which were Desert Foothills, Fox Hill, Antelope, Far Hills, and Sky Vista. At the beginning of my Project Assistant/Intern position I was giving the task to addressed agency redlines, these included comments from City of Las Vegas, Las Vegas Valley Water District, Regional Flood Control, Clark County Reclamation District, Southwest Gas, and Telephone companies. In addition to the redlines, my project manager wanted me to understand why this changes needed to occur and understand that plans in more detail. As I was modifying the plans which included both 2D design, plan and profiles, roadway sections, and utility laterals, I was able to understand and check horizontal and vertical clearance between utilities, and check for future utility conflicts. Once the revisions were addressed, I need to create quantities for that roadway package and re-submit plans for final approvals.



REPRESENTATIVE PROJECTS

Alta Improvements Phase I and II – Summerlin Village 23B

As a Project assistant/ Intern, I worked under the land development group to address engineering comments from different agencies that included City of Las Vegas, Las Vegas Valley Water District, Regional Flood Control, Southwest Gas, and Telephone companies. I also calculated quantities which included water line ranging from 6" to 12" PVC water line, calculated the number of Storm Drain Manholes, the amount of RCP pipe needed for both Phase 1 and Phase 2. the amount of earthwork, asphalt, Type II, and UTACS material needed for the road to be fully improved. Prepare horizontal control plans, lateral sheets, and minor utility revision based on horizontal and vertical crossing. once of the quantities were established, I needed to get the plans approved and get them ready for construction.

Far Hills Storm Drain Improvements – Summerlin Village 23B

As a Project assistant/ intern, I was able to finish addressing final comments from both the client and agency to get the plans approved and get them ready for construction. This project was very detailed, because it included varies size of drop inlet, RCP pipes, and even an Arch concrete culvert that need structural approval. My role was to take this project from 75% status all the way to 100% and get all agency approved. This project also needed to get approved prior to any other roadway package along the Summerlin Village 23B boundary, due to the fact the this project will be the key for the future projects and take on the flows requirements needed for this entire village.

HUMBERTO FRANCO-RIVAS (14-052-64)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

G.C Wallace Inc
Nevada (United States)
Senior CAD Tech
January 2014—November 2015

Verified by
Joshua Lee Johnson
josh.johnson@westwoodps.com

Experience Summary
Full-Time
Engineering: 1 year, 10 months
Post EAC degree: 1 year, 6 months
Experience under licensed engineer:
1 year, 10 months

TASKS

During my time in the Summerlin team from January 2014 to June 2014, as one of the Sr. CAD technicians my involved and role was to prepare improvement plans dealing with storm drain, water, sewer, traffic, and grading plans. In addition to creating improvements plans, I was also able to attend few client meeting and team meetings that the Summerlin team had to create a plan of attack regarding which projects needed to be prioritized and submitted first. Another part of my involved, I was able to be the point of connection for most of the utilities that needed to coordinate with us, while the plans were in the design stages. Once the Summerlin 23B roadway improvements packages were getting wrap up, I was put into the Summerlin 16A team which involved relatively the same roadway packages, however this land was native, and all the infrastructure was completely new. The scope of the Summerlin 16A packages, involved detention basin, various storm drain infrastructure that included 3 bubbler systems, sediment basins, berms/swales, water lines, and sewer lines.

At the end of June of 2014 to November 2015, I was moved into the transportation team. The transportation team had various amount of government projects that were dealing with safety improvements at various traffic signals, ITS projects, and safety capacity projects. My involved in the transportation team was to create, design, and improve various roadway networks as well as upgrading the safety capacity on the Summerlin Parkway. I was also the designer for various traffic signal improvements that were either being retrofitted or about to be constructed. In the end, I was involved with three different agencies that were my clients, who were Nevada Department of Transportation (NDOT), City of Las Vegas (CLV), and Regional Transportation Commission (RTC).

REPRESENTATIVE PROJECTS

During January 2014 to June 2014, I was able to work on the following land development jobs:
Far Hills Roadway Improvements Plan – Summerlin Village 23B

As one of the designers for this project, I was involved on assisting the lead designer on creating roadway improvement plans that included storm drain, water, sewer, signing and striping plans, and horizontal control plans. In addition to the improvement plans, I was also doing the engineering cost estimate, being the point of contact for both my project manager and the utility agencies, which included addressing the agency redlines/comments and analyzed the correct requirements needed to get this plan approved.

Hualapai Rough Grade Improvements – Summerlin Village 16

As the lead designer for this project, I was able to manage of the internal and external communication with the client and agencies. I took this project from ground zero to 100% approval stages. I was able to design, layout, and create plan and profile sheets, utility sheets, and grading sheets that involved different scenario regarding utility crossing conflicts, future tie-in points, and how the various system will connect into the existing infrastructure. I also assisted on putting together various roadway packages dealing with roadway, utility, and traffic that need to tie-in into the Hualapai Rough Grading plans. I addressed agency comments once the plans were reviewed and coordinated with the various agencies as well as utility companies.

From June 2014 to November 2015, I worked under the following transportation projects.

Summerlin Parkway Safety Improvement Phase 2 and 3

As the assistant to the project manager for this project, I designed and analyzed the layouts of the cable barriers alongside the median of a three-lane divided highway. I reviewed the AASHTO Geometric design highway and Street (Green Book) alongside the Roadside Design Guidelines to coney my project managers the ideal locations and spacing requirements needed to meet and qualified the design parameters based on the design speed of the road. I was also improved on preparing grading plans along side this project to tie-in two existing bike lanes together as well as re-design the traffic signal at one of the off-ramps of the highway.

Nellis ITS

As the lead designer for this project, I was involved on preparing improvement plans for 2.5 miles of newly install ITS conduit along Nellis Blvd. With the help of my Project manager, I reviewed the various intersections along this project to determine if or not any adjustments were needed at the controller cabinet for the ITS to work at theses intersections. I also layout a design to show which side of the road will be most effective way to tie-into and the less costly (benefit to cost ration scenarios). In my intersection design upgrades locations, I was responsible of upgrading all of the traffic signal equipment inside the Control cabinet as well as switching the intersection from video detection phase into loop detection.

HUMBERTO FRANCO-RIVAS (14-052-64)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

S&B Christ Consulting
Nevada (United States)
Senior Designer

November 2015—October 2017

Verified by
Daniel Daniel Kelley
dkelley@sbcc-us.com

Experience Summary

Full-Time

Engineering: 1 year, 11 months

Post EAC degree: 1 year, 11 months

Experience under licensed engineer:

1 year, 11 months



TASKS

In November 2015, I moved into a smaller company called "S&B Christ Consulting", my role in this small company was to be the lead senior designer for the company itself. As the Senior Designer, this opened up more opportunities to get involved in not just create improvement plans. Within this role, I was able to create my own drainage studies, my own water network analysis and get them approved by the agencies and have more one-on-one coordination meetings with the client, agency, and as well as the contractor itself. During this time, I was designing and creating different types of improvement plans which vary from leech fields, commercial lots, working on restoring old mobile home parks, and sewer line upgrades.

In addition to local projects, I was able to experience work from different states that include Arizona and Pennsylvania with the Army Corp of Engineering. These projects were part of different requests from the Army Corp of Engineers to upgrade different bases around the United States, which either had drainage problems that were occurring in the bases and upgrade of infrastructure which included both Sewer and Water lines.



REPRESENTATIVE PROJECTS

From November 2015 to March 2016, I worked on the Desert Gymkats gymnasium project. The location on this project was at the SW corner of Cimmaron Road and Via Olivero Ave in Las Vegas, Nevada. At first, this project was a 1.8-acre dirt lot that needed to be transformed into a commercial lot in the City of Las Vegas. My role for this project was to start from ground zero and work on the design and get the plans approved by my manager Daniel Kelly as well as all other agencies. This project involved different tasks at the beginning and getting the Drainage study approved by Regional Flood Control and the water network analysis by Las Vegas Valley Water District. Without the approval of both the drainage study and the Water network analysis, my plans couldn't move any further until I received the letters from the two previous agencies. During the approval process, I was able to coordinate with the City of Las Vegas to start creating the early grading permit plans for the construction to begin and established some grading excavation, which also gave me the time to design the improvement plans based on the client requirements and additional information from the other utilities on working on the point of connection the rest of the site itself. Within the small timeframe that I was given I was able to create plans from preliminary stages all the way to 100% plans and got them approved by the City of Las Vegas.

From March 2016 to October 2017, I worked under a Clark County Water Reclamation project called CCWRD no. 723, this project was composed of upgrading a 15-inch sewer pipeline with a 18-inch SDR 35 pipeline as well as upgrading all of the existing manholes with polymer manholes, this project was about 1-mile long stretch. This project was heavily needed since at the time, the southwest part of town was the fastest growing area in southern Nevada and the existing infrastructure couldn't keep up with the demand. This system also served as the upstream of a 60-inch sewer interceptor that will be taking all the flow from the southwest side. Most of the design itself was based on the standard from Clark County Reclamation District as well as Las Vegas Valley Water District when the sewer line either was crossing below or above the existing waterlines in the public right-of-way.

HUMBERTO FRANCO-RIVAS (14-052-64)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Slater Hanifan Group (SHG)
Nevada (United States)
Graduate Engineer II
November 2017—July 2019

Verified by
Derick Derick Yoro
derick.yoro@westwoodps.com

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

TASKS

In November 2017 to July 2019, I moved into SHG (Slater Hanifan Group) which was later bought by Westwood, my role as a Graduate Engineering II was to design and create improvement plans for two different clients, one was for Raintree LLC, which own certain parts of Lake Las Vegas in Henderson, Nevada and another client was Olympia Group which were the owners for Skye Canyon in the northwest part of Las Vegas. All these different roadway improvement packages that I was able to design and create consist of Water, Sewer, and Drainage facilities for either proposed or future improvements. My basic day to day operation consists of 90% of my time creating improvement plans which included the following: plan and profiles, cross sections, utility laterals, earthwork/grading, and utility layouts.

In addition to the two clients, I was able to look over different WNA's (Water Network Analysis) and Drainage Studies to determine the ideal size of drop inlet as well as the pipe size needed for the design to work. In addition to the studies, I was able to determine the ideal minimum floor elevation needed to check if a PRV (pressure reduce valve) or a BWV (Back Water Valve) was required in certain lots.

REPRESENTATIVE PROJECTS

Skye Canyon Drive – Skye Canyon

As the lead designer for this project, I was the main designer to layout all of the utilities which included water, sewer, and storm drain designs, I have also prepared grading plans that consisted of few berms, swale, and access roads into culvert crossing as well as some outlet storm drain pipes. Once the improvements were at 60% design or higher, I calculated the engineering cost estimate as well to secured bonds and submit to local agencies. Once the plans were reviewed, I addressed various agency comments and coordinated with the agencies regarding design elements, utility conflicts, and scheduling design goals.

Lake Las Vegas Pkwy Phase 2 – Lake Las Vegas

As one of lead designer for this project, I was able to layout the design for this roadway plan which consisted of water, sewer, storm drain, striping, and lighting. In addition to the design elements, I assisted in helping out the lead designer on various design concepts that were needed to establish a design layout into the adjacent parcels to determine future entry ways as well as future point of connections need to serve the future parcel. Furthermore, I graded the roadway plan to established and design three pier step walls on one side of the road to limit the amount of scarping along an existing subdivision. I delegated some of the plan production to coworkers and reviewed the work they did on the plans. Once the plans were in good conditions, I calculated the cost estimate of this project as well as, provided a copy to the stamp engineer and addressed the comments, prior to submitted them to local agencies in order to receive mylar approval.

HUMBERTO FRANCO-RIVAS (14-052-64)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Clark County Public Works
Nevada (United States)
Associate Engineer
August 2019—July 2021

Verified by
Kaizad Kaizad Yazdani
kyazdani@clarkcountynv.gov

Experience Summary
Full-Time
Engineering: 1 year, 11 months
Post EAC degree: 1 year, 11 months
Experience under licensed engineer:
1 year, 11 months

TASKS

From November 2019 till now, I have been working in the Clark County Public Works Traffic Division Department. I first started as a Principal Engineering Tech and currently, I'm an Associate Engineer with major branches of engineering that focus on various traffic project that included striping projects, speed cushion, ITS, full rehabilitation, bike lanes, and Capital improvement projects (CIP). In addition to those projects, I'm also responsible on creating material contracts for our operation staff to order materials needed to get our projects done. In addition, I'm the project engineer for all of my design jobs and coordinate with the construction management staff to address any design issues that occur in the field during construction. From time to time, I review certain improvement plans from our development division regarding any traffic concerns or any traffic signal designs based on the consultant roadway plans. In addition to those tasks, I also prepare and create construction specification contracts that needed to get updated or modified certain section based on new finding or updated Clark County Public Work requirements.

REPRESENTATIVE PROJECTS

Sierra Vista Improvements

As the main designer and project manager for this project, I created and design all the newly created roadway improvement plans that was about 1 mile of new construction this project, consisted of newly install roadway sections, sidewalk, lighting, curb and gutter, ADA ramps, upgraded traffic signal designs at intersections, and grading. I prepared entitlement and easement that needed to get acquired to established new right-of-way need for this project which involved with having meeting with property owner as well as provided legal exhibits on the work that was going to get done. Once all of the easements and plans were approved, I created and analyzed an engineering cost estimated for contractors to established bid prices. As the main point of contact for this project, I needed to answer all of the contractors' questions based on the design or provided clarification based on contractor questions/concerns.

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

AURELIA GRIMALDI (15-712-75)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
08/02/2021

Citizenship
United States

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, Las Vegas
August 2009–May 2015

REFERENCES



EXAMS



Fundamentals of Engineering (FE)
Nevada
September 2017

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

LICENSES



Additional Licenses
None

WORK EXPERIENCE

Atkins North America
Nevada (United States)
Engineer II
June 2015—September 2019

Verified by
Venu Parimi
venu.parimi@atkinsglobal.com

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

TASKS

Engineer I - This was my first position out of college. I worked as an entry level traffic engineer for 2 years. I primarily worked on traffic signal and ITS design-type projects, supplemented with signing and striping design work as well. I have experience working on the 2 largest construction projects that my company had ever been a part of in North America: my duties for these projects included ITS design for DMS structures, CCTV's, flow detectors and fiber conduit paths and MOT for temporary traffic signals. I worked on multiple large scale arterial roadway projects where I provided overhead signing design using SignCAD, striping design, lighting and ITS. I have successfully completed approximately 15 different traffic signal designs and modifications within the Las Vegas area. I also performed multiple traffic studies for a long termed contract for a local master planned community.

Engineer II - I was promoted to this position 2 years into my professional career. On top of my responsibilities as an entry level traffic engineer, I also became a supervisor to a full time entry level engineer and a part time intern.

REPRESENTATIVE PROJECTS

I-580 ITS Design (NDOT)

Project Outline: A 6-mile-long ITS infrastructure update project in Reno, Nevada.

Responsibilities: I designed the ITS elements of the project including the fiber layout, CCTV locations, and flow detectors. I analyzed the best locations for the DMS locations and ramp metering systems. I attended review meetings, site visits, and did the production and submittal of a complete set of plans. I acted as the main Atkins point of contact for the client and subconsultants.

Ogden Avenue Rehabilitation (City of Las Vegas)

Project Outline: Roadway and traffic design update of a 1/2 mile stretch of Ogden Avenue in Las Vegas, Nevada.

Responsibilities: I designed and drafted the 30% plans for striping, signal modifications, lighting, irrigation, roadway and DMS structure layout. Oversaw and directed lower level engineering staff for design coordination. Attended client meetings and recorded meeting minutes.

Bruce Woodbury Beltway (Clark County)

Project Outline: Complete roadway infrastructure design for two different Las Vegas Beltway projects: I-215 from Tropicana to Charleston and I-215 from North 5th to UPRR.

Responsibilities: I designed and drafted the striping, signing, signals and ITS design. I applied ADA/PROWAG standards. I prepared quantities and coordinated with both the client and the contractor to ensure plan set consistency and accuracy.

Project Neon (NDOT)

Project Outline: Roadway infrastructure re-design of a \$1 billion, 3.6 mile long freeway segment in Las Vegas, Nevada.

Responsibilities: I reviewed and delivered ITS plans for all segments of the project, freeways and local arterials included. Followed rigorous quality control review on all submittals to ensure integrity and efficacy of plans. Coordinated with different disciplines to solve complex design issues for a time sensitive project.

Purple Line Light Rail (MDOT)

Project Outline: Design of \$5.6 billion, 16-mile light rail line in Maryland.

Responsibilities: I designed and delivered the temporary ITS and signal design. I worked on the phased design for multiple MOT construction phases. Coordinated with technical leads and designers from different offices to complete tasks and meet deadlines.

Landwell Traffic Study and Wasden Elementary School Pedestrian Safety Study (City of Henderson & City of Las Vegas)

Project Outlines: Traffic study for a master planned community and pedestrian safety study for an elementary school.

Responsibilities: I prepared two traffic studies for a local land development project for the City of Henderson and a school

pedestrian safety study for the City of Las Vegas. Used Synchro to do trip distribution and LOS analysis for affected intersections. Followed MUTCD standards for signal warrant analysis.

WORK EXPERIENCE

City of Las Vegas
Nevada (United States)
Sr. Engineering Associate
September 2019—July 2021

Verified by
Sean Eric Robinson
srobinson@lasvegasnevada.gov

Experience Summary
Full-Time
Engineering: 1 year, 10 months
Post EAC degree: 1 year, 10 months
Experience under licensed engineer:
1 year, 10 months

TASKS

Sr. Engineering Associate - I participate, lead and help manage a variety of traffic related design projects and smart city infrastructure projects within the Public Works Department. I review traffic plans for the City's capital improvement projects, which often includes advising detailed traffic design elements including signing, striping, signals, lighting and ITS infrastructure. I coordinate and facilitate the work of other city employees, consultants, and contractors. I perform a variety of technical tasks relative to the design of citywide traffic design upgrades including new traffic signals and work orders performed by city field operations crew.

REPRESENTATIVE PROJECTS

Traffic Signal Designs (Utah and Main, Utah and Commerce, Charleston and 8th)

Project Description: New signals that have been identified as needing traffic control upgrades after meeting MUTCD warrants.
Responsibilities: I designed and drafted 3 separate signalized intersections that have been installed by the City's field operations staff. I reviewed as built, performed field visits, and coordinated with other concurrent projects in design and construction.

Charleston Bus Turnout Traffic Signal Modifications

Project Description: In-house roadway design project that includes upgrading various bus stop locations to physical bus turnout pockets.
Responsibilities: I designed and drafted the signal modifications for 5 different intersections that were impacted by the new bus turnouts. I reviewed as built, performed field visits, and coordinated with other city engineers for plans production. I analyzed the intersection for potential ADA upgrades and operational efficiencies.

Various Traffic Studies

Project Description: Various problem intersections and corridors that were identified by citizens as having high crash rates, volumes and/or speeding.
Responsibilities: I completed 5 different traffic studies within city limits by analyzing speeds, volumes, crash data and engineering deficiencies on various corridors and intersections. I evaluated different roadway improvements to mitigate speed and increase motorist, pedestrian and bicyclist safety.

Work Orders

Project Description: Various corridors and intersections that have been identified by citizens as needing traffic design improvements.
Responsibilities: I have completed 10 work orders that included designing signing and striping upgrades to various corridors throughout the city. I analyzed existing infrastructure and drafted exhibits to aid our field crew in implementing the improvements.

Fiber Optic Master Plan

Project Description: Planning and designing the City's smart city fiber optic network
Responsibilities: I review and coordinate the design of the city's fiber optic network, determine CDCA and trunkline splices between various CIP projects, and help forecast fiber paths for redundancy.

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

ANDREW KASOZI (14-363-36)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL


 Applying To
Nevada

Application Type
Initial - PE

Application Date
07/19/2021

Citizenship
Uganda



SUMMARY


 Engineering Experience
after EAC degree

Total Engineering
Experience
4 years, 4 months

Experience under licensed
engineer
4 years, 4 months

Disciplinary Action
None reported



EDUCATION


 Bachelors in Civil Engineering
Makerere University
October 2002–October 2006

Masters in Civil Engineering
University of Nevada, Reno
January 2008–August 2010

Non-degree
University of Nevada, Reno
August 2010–May 2015



EXAMS

 Fundamentals of Engineering (FE)
Nevada
April 2013

Principles and Practice of Engineering (PE)
Civil
Nevada
October 2015

LICENSES

 Additional Licenses
None

ANDREW KASOZI (14-363-36)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Nevada Department of Transportation
Nevada (United States)
Staff 2 Associate Engineer
August 2015 – August 2016

Verified by
ABBAS ALIREZAIE BAFGHI
abbas.bafghi@gesnevada.com

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



TASKS

I worked as a Staff 2 Associate Engineer in the Geotechnical Section within the Materials Division at the Nevada Department of Transportation (NDOT) primarily on small to large scale infrastructure projects including bridges, tunnels, culverts, retaining walls, and bike trails. My project tasks and duties ranged from planning and conducting field exploration programs, to preparing and disseminating Technical Memoranda and Reports with design and construction recommendations. My specific tasks during project execution routinely included: conducting site reconnaissance and site marking for underground utility clearances; reviewing preliminary bridge plans; extensive coordination with several divisions at NDOT including Structures, Roadway Design, Right-of-Way, and Maintenance Divisions; conducting ReMiTM and seismic refraction Geophysical surveys and in-situ field testing; advancing soil borings, test pits, and rock coring through existing materials in the field; soil and rock logging; collecting soil and rock samples; assigning laboratory testing on recovered samples; analyzing laboratory test results; preparing Boring Logs using the gINT software; completing engineering analyses; preparing Geotechnical Engineering Reports and Technical Memoranda, with design and construction recommendations; and reviewing project PS&E documents for compliance with NDOT policies and specifications and preparing and submitting Design Review Comments and Special Provisions. The engineering analyses that I routinely performed included: seismic analyses based on Geophysical data; bearing resistance, settlement, and sliding resistance analyses for spread footings in accordance with AASHTO LRFD design methods; and providing soil parameters for design of drilled shaft foundations. I facilitated the Construction Manager at Risk (CMAR) project delivery process by reviewing Consultant's Design Reports, Contractor submittals, and PS&E documents and providing Review Comments. I facilitated the QC/QA acceptance process for bridge foundation piling by conducting pile driving observations during construction, using a Saximeter to record pile driving logs, preparing, and providing pile driving records, reviewing the pile driving analyzer (PDA) report submittal, and providing review comments.



REPRESENTATIVE PROJECTS

Cave Rock Tunnel Extension on US 50; Douglas County, NV
August 2015 through January 2016

This project entailed addition of a 62-foot-long Rockshed structure supported on 4-foot-wide spread footings to the existing tunnel for rockfall mitigation. I planned and completed the field exploration program which included: site reconnaissance and marking for underground utility clearances; coordinating traffic control; advancing and logging soil borings and rock coring through the existing materials; collecting samples; assigning laboratory testing; analyzing laboratory test results; and preparing Boring Logs using gINT. I reviewed preliminary structural plans and completed AASHTO LRFD Code-based bearing resistance analyses by the Terzaghi method and settlement analyses by the Hough method. I provided foundation design and construction recommendations to the Structural Engineer. I reviewed the project's PS&E documents and prepared Design Review Comments and Special Provisions. This project won the prestigious Quality of Life/Community Development Award by America's Transportation Awards (ATA) annual program for 2017.

Overhead HOV Drop Ramp on US 95 at Elkhorn Road; Las Vegas, NV
October 2015 through May 2016

I was part of the Team that provided Geotechnical Engineering design and construction recommendations for the addition of an overhead HOV drop ramp on US 95 at Elkhorn Road, whose columns were to be supported on spread footings. I planned and completed the field exploration program which included: site reconnaissance and marking for underground utility clearances; coordinating traffic control; advancing and logging soil borings through the existing materials; collecting samples; assigning laboratory testing; and preparing Boring Logs using gINT. I reviewed preliminary structural plans and loads, completed AASHTO LRFD Code-based bearing resistance analyses, and provided soil design parameters for bearing and sliding resistance to the Structural Engineer.

NDOT District 3 Maintenance Yard Keystone MSE Wall; Elko, NV
February 2016 through July 2016

This project involved design of a 370-foot-long, 22-foot-maximum-height, Keystone MSE wall at NDOT's District 3 maintenance yard. I planned and completed the field exploration program which included: site reconnaissance and underground utility clearances; conducting ReMiTM and seismic refraction Geophysical surveys and field testing; advancing and logging soil borings through the existing materials; collecting samples; assigning laboratory testing; and preparing Boring Logs using gINT. I completed seismic analyses for Site Class, and AASHTO LRFD Code-based bearing resistance and settlement analyses for the wall's footings. I prepared the Technical Memorandum providing MSE wall design and construction recommendations.

Eden Valley Road Bridge Replacement at Humboldt River; Humboldt County, NV
March 2016 through August 2016

This project involved replacing the existing two-span, bridge built in 1974 with a 30-foot-longer, single-span, bridge on driven steel pipe piles. Due to a late change in the proposed bridge alignment, this project entailed verification of previously completed Geotechnical work. I reviewed the Geotechnical Report and preliminary Bridge Construction Plans. I planned and completed the field exploration program which included: site reconnaissance and marking for underground utility clearances; coordinating right-of-way permitting between NDOT and local homeowners; and conducting ReMiTM and seismic refraction Geophysical surveys and field testing. I completed analyses for seismic parameters, compared these with previous parameters, and provided recommendations on further field exploration.

SR 28 Multi-Use/Shared Use Bike Path; Incline Village, NV
April 2016 through August 2016

This project utilized the CMAR delivery process to plan, design and construct a 3-mile-long bike path from Incline Village to Sand Harbor, including several bridges and retaining walls proposed for navigating the difficult Lake Tahoe terrain. I attended partnering workshops and completed site reconnaissance of the project alignment. I reviewed Consultant Design Reports for AASHTO LRFD compliance, and Contractor Submittals and PS&E documents, for compliance with NDOT specifications. I prepared and provided agency Review Comments to facilitate the CMAR process.

Martin Slough Culvert Replacement on US 395; Minden, NV
May 2016 through August 2016

This project entailed replacing the existing double-cell, 6-foot-wide-by-3-foot-tall-by-168-foot-long reinforced concrete box (RCB) culvert with a triple-cell, 12-foot-wide-by-5-foot-tall-by-168-foot-long RCB culvert. I reviewed preliminary culvert structural plans, and planned and completed the field exploration program which included: site reconnaissance and underground utility clearances; coordinating traffic control; advancing and logging soil borings; collecting samples; assigning laboratory testing; and preparing Boring Logs using gINT. I completed AASHTO LRFD Code-based bearing resistance and settlement analyses for the headwall footings and prepared the Technical Memorandum with design and construction recommendations.

ANDREW KASOZI (14-363-36)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Construction Materials Engineers, Inc.
Nevada (United States)
Project Engineer
July 2017 – April 2018

Verified by
Martin Noble Crew
mcrew@cmenv.com

Experience Summary
Full-Time
Engineering: 9 months
**Experience under licensed engineer:
9 months**



TASKS

I worked as a project engineer in the Geotechnical Engineering department at Construction Materials Engineers, Inc. My tasks and duties ranged from planning and conducting laboratory testing programs and geotechnical field exploration programs to performing engineering analyses and preparing geotechnical reports on projects of a diversified nature. My projects included laboratory testing for the Nevada Automotive Testing Center research and development program, geotechnical design and recommendations for commercial buildings, geotechnical design and recommendations for on-site sewage disposal leach field systems for private and public facilities, and street pavement design and rehabilitation recommendations. The specific tasks and duties that I routinely completed for geotechnical field exploration programs on several projects included the following: performing site reconnaissance, site marking for underground utility clearances, performing visual pavement distress surveys on street and airport pavement facilities, conducting ReMi and seismic refraction geophysical field testing for site seismic properties, coordination of fieldwork scheduling with drilling and excavation subcontractors, logging of soils during drilling and test pit excavations, bagging of soil samples for later testing, assigning laboratory testing based on relevance to project design and available budget, performing analysis of laboratory test results, preparing soil boring logs and test pit logs using the Geosystems software, performing Allowable Stress Design-based engineering analyses for the soil's bearing capacity using the Terzaghi method and footing settlement using the Hough method for foundation design and proportioning of footings, performing percolation rate analyses using the Oliveieri-Roche correction method for the ratio of the percolation hole volume to the wetted area to provide site-specific design percolation rates and recommendations for on-site leach field systems, and preparing geotechnical engineering reports with recommendations for design and construction.



REPRESENTATIVE PROJECTS

NATC Soil Testing; Reno, NV

July 2017 through April 2018

My team was subcontracted by the Nevada Automotive Test Center to conduct ongoing soil testing for their R&D program evaluating vehicle tire/soil interaction mechanisms. As project engineer, I designed the laboratory testing program and conducted the following testing on several soil samples: direct shear, Atterberg limits, gradation, and compaction. I performed engineering analyses of the test results and prepared and provided pertinent data reports and recommendations.

Mercedes Benz of Reno - Service Bay Expansion; Reno, NV

July 2017 through September 2017

This project consisted of the addition of a service bay structure to the existing Mercedes Benz of Reno dealership facility in Reno, NV. For the service bay's foundation requirements, I completed the Geotechnical Engineering field exploration program which included: advancement of drilled soil borings and conducting ReMi and Seismic Refraction Geophysical field testing to establish seismic properties of the site. I assigned laboratory testing on recovered soil samples, and prepared soil boring logs. I performed engineering analyses for the building's foundation including bearing capacity by the Terzaghi method and foundation settlement using the Hough method.

4340 Drake Way - Gary Taylor Residence; Washoe Valley, NV

November 2017 through December 2017

This project entailed developing and providing Geotechnical Engineering recommendations for an on-site sewage disposal leach field system to be incorporated into the proposed Gary Taylor residence, following Washoe County Environmental Health District

requirements. This private residence featured a proposed 2-story, 1400-square-foot-house. As project engineer, I planned and completed the field exploration program which included soil percolation testing in accordance with Chapter 444 of the Nevada Administrative Code, collection of soil samples, and laboratory testing on soil samples. Utilizing the Oliveieri-Roche correction method for the ratio of the percolation hole volume to the wetted area, I performed analysis of field and laboratory test results and provided a design percolation rate for the site. I prepared the percolation investigation report for use in project design.

1400 South McCarran Boulevard Warehouse; Sparks, NV

November 2017 through February 2018

I was part of the team that provided Geotechnical Engineering recommendations and services for this 1.5-million-square-foot commercial distribution warehouse building. For the building's foundation, I reviewed the anticipated loading cases from the Structural Engineer, along with data from drilled soil borings, and I developed an idealized site-specific soil profile for foundation analyses. I performed Allowable Stress Design-based engineering analyses for the soil's bearing capacity using the Terzaghi approach, footing settlement analysis using the Hough method, and I subsequently provided preliminary recommendations on the proportioning of the building's footings.

Walker River Paiute Tribe Safety Center Percolation Investigation; Schurz, NV

December 2017 through February 2018

The proposed Safety Center included the incorporation of an on-site sewage disposal leach field system to serve a 3000-square-foot building on a 2.5-acre parcel in downtown Schurz, NV. As project engineer, I provided Geotechnical Engineering recommendations for the proposed leach field system. I planned and completed the field exploration program which included soil percolation testing in accordance with the Nevada Administrative Code, logging of soils from excavated test pits, collection of soil samples, laboratory testing on soil samples, and preparation of test pit logs using the Geosystems software. I performed analysis of field and laboratory test results and provided a design percolation rate for the site. I prepared the percolation investigation report providing recommendations on the soils' suitability to support an on-site leach field system.

Reno-Stead Airport Access Road Reconstruction; Reno, NV

March 2018 through April 2018

I was part of the engineering team hired by the Reno-Tahoe Airport Authority to perform investigation of the failed asphalt concrete-paved airport access road along Texas Avenue and Maryland Street in Reno, NV and to provide recommendations for its repair and/or reconstruction. I performed a site reconnaissance in which I completed a visual pavement distress survey on the existing road, marked the road for underground utility clearances, and provided recommendations for locations to be drilled during the field exploration. I planned and completed the field exploration program which entailed coordinating traffic control services, advancing drilled soil borings through the existing road, and collecting soil samples. I assigned laboratory testing on recovered soil samples, and I prepared the soil boring logs using the Geosystems software.

ANDREW KASOZI (14-363-36)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

WRECO

California (United States)

Staff Geotechnical Engineer

October 2018—October 2019

Verified by

David Ashby Kitzmann

david_kitzmann@wreco.com

Experience Summary

Full-Time

Engineering: 1 year

Experience under licensed engineer:

1 year



TASKS

I worked as a Staff Geotechnical Engineer at WRECO, working primarily on public transportation infrastructure projects including bridges, culverts, retaining walls, street and highway pavements, bike trails, and storm damage repair projects. My role included mentoring and training junior Staff Engineers on several aspects of Geotechnical Engineering in addition to reviewing their work. My project tasks and duties ranged from planning and conducting field exploration programs, to preparing and disseminating Geotechnical Engineering reports with design and construction recommendations. My specific tasks during project execution routinely included: conducting site reconnaissance and site marking for underground utility clearances; conducting visual pavement distress surveys; preparing State, City and County permits; coordinating subcontractor services including traffic control; coordination with multiple stakeholders including agencies, local homeowners, and public schools; advancing soil borings, rock coring, and Cone Penetrometer Tests (CPTs) through existing materials in the field; soil and rock logging per the Caltrans manual; collecting soil and rock samples; assigning laboratory testing on samples recovered; analyzing laboratory test results; reviewing Boring Records and Logs of Test Borings (LOTBs); reviewing bridge plans; completing engineering analyses; reviewing invoices; and preparing Type Selection Memoranda, Bridge Foundation Reports (FR), and Geotechnical Design Reports (GDR) in accordance with Caltrans procedures, and Geotechnical Engineering Study (GES) Reports and Pavement Memoranda, with design and construction recommendations. The engineering analyses that I routinely performed included: seismic analyses for Caltrans ARS parameters; liquefaction analyses based on SPT data using the Liquefy-Pro software; SHAFT and APILE analyses for pile axial capacities and tip elevations for CIDH and driven piles, respectively, in accordance with AASHTO LRFD design methods with Caltrans amendments; LPILE and PYWALL analyses for lateral capacities; AASHTO LRFD Code-based bearing resistance, settlement, and sliding resistance analyses for spread footings; and pavement design in accordance with the California Highway Design Manual using the CalFP-Web software program.



REPRESENTATIVE PROJECTS

Central House Road Bridge Replacement across Wyman Ravine; Butte County, CA
October 2018 through December 2018

This project involved replacing the existing two-span, 44-foot-long-by-18-foot-wide bridge built in 1910 with a two-span, 200-foot-long-by-35-foot-wide bridge, for which my Team evaluated different foundation types. I reviewed LOTBs and performed seismic analyses following Caltrans procedures for ARS parameters. I provided pile tip elevations by completing SHAFT analyses on 24", 30" and 42" CIDH piles; and APILE analyses on Class 90 and Class 140 steel pipe driven piles. I prepared the Type Selection Memorandum with design and construction recommendations.

Kings Beach Western Approach Roundabout; Kings Beach, CA
October 2018 through October 2019

My Team provided Geotechnical Engineering for modifying the signalized SR28/267 intersection into a roundabout. Project challenges included: year-round busy traffic, extensive coordination with multiple stakeholders, numerous underground utilities, and minimizing impacts to nearby, scenic Lake Tahoe. I planned and completed the field exploration program which included: site reconnaissance and site marking for underground utility clearances; visual pavement distress survey; preparing State and County permits; coordinating traffic control; advancing borings through the existing pavements; collecting soil samples; assigning laboratory testing; and analyzing laboratory test results. I completed seismic analysis for ARS parameters, and pavement design using CalFP-Web software. I prepared the Draft Geotechnical Design Report and Materials Report.

Buckeye Road Bridge Replacement over Mariposa Creek; Mariposa County, CA
November 2018 through May 2019

This project entailed Geotechnical Engineering for the replacement of the existing two-lane, single-span, 44-foot-long-by-20-foot-

wide bridge built in 1947 with a two-lane, single-span, 48.5-foot-long-by-28-foot-wide bridge with Type 1-Case 1 retaining walls on spread footings for abutment wingwalls. I performed site reconnaissance, reviewed LOTBs, and conducted seismic analyses. I completed AASHTO LRFD Code-based bearing resistance and settlement analyses for the bridge and retaining wall footings, and pavement design for the bridge approaches. I prepared the Draft Bridge Foundation Report.

Lorenz Road over Middle Weaver Creek Bridge Replacement; Trinity County, CA
December 2018 through March 2019

This project entailed replacing the existing single-span, 25-foot-long-by-16-foot-wide bridge built in 1950 with a 74-foot-long, single-lane, single-span structure on 30" CIDH piles. I reviewed LOTBs and completed seismic analyses; liquefaction analysis using the Liquefy-Pro software; SHAFT analysis for pile tip elevations; and provided LPILE parameters for lateral capacity. I reviewed pavement designs for the bridge approaches and prepared the Draft Bridge Foundation Report.

SR49 Sidewalk Gap Closure Pedestrian Bridge at Rock Creek; Auburn, CA
January 2019 through October 2019

My Team provided Geotechnical Engineering for the proposed single span, 71.5-foot-long-by-10-foot-wide bridge on spread footings. I planned and completed the field exploration program including: site reconnaissance; preparing State and County permits; coordinating traffic control; advancing borings and rock coring through the existing materials; collecting samples; and assigning laboratory testing. I reviewed LOTBs and completed seismic analysis for ARS parameters; and AASHTO LRFD Code-based bearing resistance and settlement analyses for footing widths ranging from 5 – 10 feet. I prepared the Preliminary Foundation Report with design and construction recommendations.

Watt Avenue Bridge Replacement at Dry Creek; Placer County, CA
April 2019 through October 2019

This project involved replacing the existing, two-lane, three-span, 171-foot-long-by-25-foot-wide bridge built in 1940 with a four-lane, four-span, 375-foot-long-by-130-foot-wide bridge on 30" CIDH piles at the abutments, and 84" CIDH piles at the piers. I planned and completed the field exploration program including: site reconnaissance; preparing County permits; coordinating traffic control; advancing borings and CPTs; collecting samples; and assigning laboratory testing. I reviewed LOTBs and pavement designs; completed seismic analyses using the CPT data; and prepared the Draft Bridge Foundation Report.

Geysers Road Storm Damage Repair; Sonoma County, CA
July 2019 through October 2019

This project entailed providing repair options at postmiles 23.78, 29.77, and 36.75 where winter storms had caused slide failures. Repair options included: Soldier Pile Walls on 24" CIDH piles with ground anchors; Type-1 retaining walls on 24" CIDH piles; and Type 1 retaining walls on 7.5-foot-wide spread footings, for which I completed SHAFT, LPILE, PYWALL, bearing resistance, and settlement analyses. I reviewed cross-sections for soil/rock interfaces, and prepared earth pressure calculations for soldier pile walls. I provided soil design parameters for sheet pile walls for implementing the repair options. I prepared the Summary Technical Memorandum with design and construction recommendations for the options.

ANDREW KASOZI (14-363-36)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Mid Pacific Engineering, Inc.
California (United States)
Senior Staff Engineer
November 2019—June 2021

Verified by
Daniel Craig Smith
dansmith@midpacificeng.com

Experience Summary
Full-Time
Engineering: 1 year, 7 months
Experience under licensed engineer:
1 year, 7 months

TASKS

I work as a Senior Staff Engineer in the Geotechnical Engineering department at Mid Pacific Engineering, Inc., where my typical projects include pavement investigations; bridge and culvert infrastructure; commercial buildings; school buildings; residential subdivision developments; and private residences. My tasks and duties on these projects involve the whole gamut of Geotechnical Engineering project management and execution work from preparing proposals at the inception stage, planning and conducting field exploration programs, preparing and disseminating Geotechnical Engineering reports with design and construction recommendations, to managing project budgets. My specific tasks during project execution include: conducting site reconnaissance and site marking for underground utility clearances; preparing City and County permits; coordinating subcontractor services; advancing soil borings, test pits and Cone Penetrometer Tests (CPTs) in the field; soil logging; collecting soil samples; assigning laboratory testing; analyzing laboratory test results; preparing Boring Logs; completing engineering analyses; preparing reports with design and construction recommendations; and reviewing invoices for budget management. The engineering analyses that I routinely perform include: seismic analyses in accordance with both the California Building Code (CBC) and Caltrans procedures; liquefaction analyses based on CPT and Standard Penetration Test (SPT) data; bearing resistance, settlement, and sliding resistance analyses in accordance with both the Allowable Stress Design (ASD) and AASHTO LRFD design methods for foundations; and pavement design in accordance with the California Highway Design Manual using the CalFP-Web software program. Additionally, I routinely review project PS&E documents including foundation, civil, and site improvement plans and project specifications on various projects for compliance with the project Geotechnical Engineering Reports and I prepare and submit Plan Review Comments. During the construction stages of projects, I perform construction observations on mass grading, lime treatment, asphalt paving, retaining wall and bridge construction, and I prepare supplemental letters with recommendations as needed, in addition to reviewing daily field reports.

REPRESENTATIVE PROJECTS

UC Davis—South Parking Lot Pavement Investigation; Davis, CA
February 2020 through October 2020

This project entailed investigating and providing repair/reconstruction recommendations for the South Parking Lot pavement, which had failed during construction of the West Village Transfer Housing project. I designed and completed the field exploration program including: site reconnaissance; visual pavement distress surveys; advancing and logging soil borings through the existing pavement; collecting samples; assigning laboratory testing; analyzing test results; and preparing Boring Logs. I prepared the Pavement Investigation Report with recommendations including a comprehensive full-depth-reclamation-with-lime (FDR-L) study for reconstruction. During repair/reconstruction operations, I mapped out areas for dig-outs and FDR-L, conducted construction observations, and reviewed daily field reports.

Gum Ranch Park Pedestrian Bridge; Fair Oaks, CA
February 2020 through May 2021

This project involved design and construction of a single-span, 28.5-foot-long-by-5.5-foot-wide bridge with seat-type abutments on 4.5-foot-wide spread footings, within the Fair Oaks Recreation & Park District's Gum Ranch Park development. I planned and completed the field exploration program including: site reconnaissance; advancing and logging soil borings; collecting samples; assigning laboratory testing; and preparing Boring Logs. I performed seismic analyses for Caltrans ARS parameters. I completed AASHTO LRFD Code-based bearing resistance and settlement analyses, per Caltrans policy, for the bridge footings. I prepared the Foundation Report with design and construction recommendations. I reviewed Bridge Plans and prepared and provided Geotechnical Review Comments. I conducted construction observations, reviewed daily field reports, and provided direction on abutment backfill materials.

One Subaru of Hayward; Hayward, CA

April 2020 through June 2020

My Team provided Geotechnical Engineering for the proposed 3000-square-foot automobile dealership service building with 236 parking spaces. I planned and completed the field exploration program including: site reconnaissance; preparing County permit; advancing soil borings and CPTs; collecting samples; assigning laboratory testing; and preparing Boring Logs. I completed seismic analyses for CBC parameters, and liquefaction analyses using the CLiq program and CPT data. I completed parking lot and driveway pavement designs and provided bearing and sliding resistance parameters for the foundations. I prepared the Preliminary Geotechnical Engineering Report with design and construction recommendations.

Fiddymt Ranch Phase 3 Bike Trails & Culverts; Roseville, CA
June 2020 to Present

This project entailed design and construction of 1.2 miles of new bike trail alignment with 54", 48", and 12" culvert crossings at three different locations along the alignment. I planned and completed the field exploration program including: preparing City permits; site reconnaissance; advancing and logging borings along the alignment; collecting samples; assigning laboratory testing; and preparing Boring Logs and LOTBs. I completed engineering analyses including: seismic analysis for ARS parameters; AASHTO LRFD Code-based bearing resistance and settlement analyses for headwall and wingwall footing widths ranging from 2 – 10 feet for preliminary design; and pavement design using CalFP-Web software. I prepared the Geotechnical Report with preliminary design and construction recommendations. I conducted construction observations, reviewed daily field reports, and provided direction on culvert backfill materials.

Indian Hill Road Pavement Design; Newcastle, CA
January 2021 through April 2021

This project involved providing design recommendations for the driveway entry/exit pavement proposed to connect existing County-owned Indian Hill Road to future Stoneridge Lane, a subdivision street within the proposed Stoneridge residential development. I planned and completed the field exploration program including: site reconnaissance; preparing County permit; coordinating traffic control; advancing and logging soil borings; collecting samples; and assigning laboratory testing. I completed pavement designs and analyses for pavement section options using CalFP-Web and prepared the Pavement Memorandum with recommendations.

Ogden Ranch B Drive & C Drive Bridges; Sacramento, CA
March 2021 to Present

This project involved Geotechnical design of two, two-lane, single-span, prefabricated CONSPAN bridges with headwalls and wingwalls supported on spread footings, within the Woodberry at Bradshaw Crossing residential development. The B Drive bridge measures 60-feet-long-by-29-feet-wide, while the C Drive bridge measures 48-feet-long-by-44-feet-wide. I planned and completed the field exploration program including: site reconnaissance; advancing and logging soil borings; collecting samples; assigning laboratory testing; and preparing Boring Logs. I completed engineering analyses including: seismic analysis for ARS parameters; AASHTO LRFD Code-based bearing resistance and settlement analyses for footing widths ranging from 3 – 15 feet for preliminary design; and bridge approach pavement design using CalFP-Web. I prepared the Foundation Report with preliminary design and construction recommendations.

ANDREW KASOZI (14-363-36)

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

ANDREW KASOZI (14-363-36)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

| Start Date | End Date | Reason | Explanation |
|------------|----------|------------|--|
| 12/2001 | 09/2002 | Unemployed | Nationally-recognized long vacation from completion of high school to start of undergraduate college studies |
| 11/2006 | 12/2007 | Unemployed | Took time off to prepare for my transition and migration to the United States for graduate studies. |
| 09/2016 | 06/2017 | Unemployed | Took time off to attend to personal and family matters in Uganda. |



DEGREES EVALUATED

| Institution/Degree | Country | Language | Courses |
|--|---------------|----------|---------|
| Makerere University / Bachelors in Civil Engineering 10/01/2002 — 10/01/2006 | Uganda | English | 38 |
| University of Nevada, Reno / Masters in Civil Engineering 01/01/2008 — 08/01/2010 | United States | English | None |
| University of Nevada, Reno / Non-degree 08/01/2010 — 05/01/2015 | — | English | None |

COMPARABILITY SUMMARY

Outcome: Not Equivalent

| Area | Hours | Deficiency |
|--------------------------|----------|----------------------------|
| Math/Science | 34 / 32 | Missing Biology or Physics |
| Engineering | 63 / 48 | None |
| General Education | 14 / 12 | None |
| Elective/Other | 32 / N/A | None |

SPECIAL NOTE

The NCEES Engineering Education Standard requires at least two courses in basic sciences. These courses must be in general chemistry, general calculus-based physics, or general biological sciences. The two courses may not be in the same area.

Specified Criteria Hours: 32

| Course | Institution/Degree | U.S. Credits |
|--------------------------|--|--------------|
| Calculus I | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Calculus II | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Chemistry | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Differential Equations | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Engineering Geology | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Mechanics | Makerere University / Bachelors in Civil Engineering | 3.0 |
| Probability & Statistics | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Strength of Materials | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Thermodynamics | Makerere University / Bachelors in Civil Engineering | 3.0 |

Total semester credit hours earned: 34.00

ENGINEERING

Specified Criteria Hours: 48

| Course | Institution/Degree | U.S. Credits |
|------------------------------|--|--------------|
| Civil Engineering Materials | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Design Project | Makerere University / Bachelors in Civil Engineering | 6.0 |
| Electrical Engineering | Makerere University / Bachelors in Civil Engineering | 3.0 |
| Fluid Mechanics | Makerere University / Bachelors in Civil Engineering | 3.0 |
| Foundation Engineering | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Highway Engineering | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Hydraulics & Hydrology | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Public Health Engineering I | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Public Health Engineering II | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Soil Mechanics | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Structural Design I | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Structural Design II | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Theory of Structures I | Makerere University / Bachelors in Civil Engineering | 3.0 |
| Theory of Structures II | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Transportation Engineering | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Water Resources Engineering | Makerere University / Bachelors in Civil Engineering | 4.0 |

Total semester credit hours earned: 63.00

GENERAL EDUCATION

Specified Criteria Hours: 12

| Course | Institution/Degree | U.S. Credits |
|----------------------|--|---------------------|
| Communication Skills | Makerere University / Bachelors in Civil Engineering | 3.0 |
| Economics | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Law | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Sociology | Makerere University / Bachelors in Civil Engineering | 3.0 |

Total semester credit hours earned: 14.00

ELECTIVE/OTHER

Specified Criteria Hours: N/A

| Course | Institution/Degree | U.S. Credits |
|-----------------------------------|--|--------------|
| Computer Science I | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Computer Science II | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Engineering Drawing | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Engineering Management | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Engineering Workshop Practice | Makerere University / Bachelors in Civil Engineering | 2.0 |
| Infrastructure Management | Makerere University / Bachelors in Civil Engineering | 3.0 |
| Introduction to Civil Engineering | Makerere University / Bachelors in Civil Engineering | 3.0 |
| Route Surveying | Makerere University / Bachelors in Civil Engineering | 4.0 |
| Surveying | Makerere University / Bachelors in Civil Engineering | 4.0 |

Total semester credit hours earned: 32.00

Total Semester Credit Hours Earned: 143

PROCESS DESCRIPTION

All education is compared to the NCEES Engineering Education Standard

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

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


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

TEJAS KOTKAR (18-220-61)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL


 Applying To
Nevada

Application Type
Initial - PE

Application Date
07/28/2021

Citizenship
India



SUMMARY

 Engineering Experience
after EAC degree

Total Engineering
Experience
3 years, 1 month

Experience under licensed
engineer
3 years, 1 month

Disciplinary Action
None reported

EDUCATION

 Bachelors in Civil Engineering
University of Pune - Savitribai Phule Pune University
August 2012–May 2016

Masters in Civil Engineering
University of Southern California
August 2016–May 2018

REFERENCES

 **Vanessa Yi-Ting Acon P.E.**
vacon@dc-engineers.com | (415) 638-8910


Quentin Lee P.E.
qlee@dci-engineers.com | (415) 638-8933

Nolan Lenahan P.E.
nlenahan@dci-engineers.com | (916) 337-1449

Manuel Aldaco Lopez P.E.
maldacolopez@dci-engineers.com | (213) 298-3707


Jonathan Michael Deck P.E.
jdeck@dci-engineers.com | (619) 400-1704

EXAMS

 Fundamentals of Engineering (FE)
California
October 2017

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

LICENSES

 Additional Licenses
None

TEJAS KOTKAR (18-220-61)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

John Labib & Associates
California (United States)
Design Engineer
May 2018—January 2020

Verified by
Wei-Chih Richard Chen
richard.chen@labibse.com

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



TASKS

Analysis & Design of several single-family & multi-family residential buildings. Analysis & design of commercial structures. Strengthening and retrofitting existing buildings.

Wood:

1. Calculating seismic force on each story using ELF and coming up with the required length and number of shearwalls for coordination with other consultants.
2. Designing Gravity Framing (Joists, Beams, Posts, Studwalls) to meet code standards.
3. Designing Wood Shearwalls.
4. Coordinating and communicating structural wood needs with Architect for special conditions (Transfer Beams, cantilever, etc)

Steel:

1. Designing Steel Gravity Members to meet code requirements (Beam, Joists, Girders, Columns, Metal Decks, etc)
2. Designing Steel Special Moment Frames, Ordinary moment frames, Braced Frames as part of building lateral system.
3. Designing Chords, Collectors & Drags for seismic forces.
4. Designing an detailing miscellaneous Steel Bolted and Welded Connections,

Concrete:

1. Design of Concrete One-Way and Two-Way Slabs.
2. Designing Concrete Columns and Beams.
3. Designing Concrete shearwalls as part of lateral system.
4. Design of foundations.



REPRESENTATIVE PROJECTS

1. Western & Franklin - 4 Story Wood structure over 2 story concrete podium design. (March 2019 - December 2019)

I worked as a project engineer to design wood joists, beams, diaphragm, shearwalls, etc. For the Concrete podium, I designed two-way slabs and reinforcement per the appropriate loading conditions. I also designed and detailed concrete shearwalls, concrete columns, and beams.

2. 712 Enchanted Way - Hillside Single-family dwelling (July 2018 - Dec 2019)

I designed wood shearwalls, wood joists, wood beams for the with special long steel cantilevers and transfer beams. Designed Deep Pile Foundation and Mat Slab.

3. Orange Flats - 5 Story Wood structure over 1 story concrete podium.

I worked as a project engineer to design wood joists, beams, diaphragm, shearwalls, etc. For the Concrete podium, I designed a two-way slab and reinforcement per the appropriate loading conditions. Designed and detailed concrete shearwalls.

TEJAS KOTKAR (18-220-61)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

DCI Engineers
California (United States)
Project Engineer
February 2020—July 2021

Verified by
Nolan Lenahan
nlenahan@dc-engineers.com

Experience Summary
Full-Time
Engineering: 1 year, 5 months
Experience under licensed engineer:
1 year, 5 months

TASKS

I'm holding responsibilities and duties to design and deliver on time for the following items

Wood:

1. Analysis and design of wood gravity and lateral systems.
2. Analysis, design, and detailing of miscellaneous connections.
3. Coordinating and communicating with other consultants from time to time.

Steel:

1. Designing Steel Gravity and Lateral system to meet code requirements.
2. Designing Steel Special Moment Frames, Ordinary moment frames, Braced Frames as part of building lateral system.
3. Designing modular type of construction.

Concrete:

1. Design of Concrete One-Way and Two-Way Slabs mild reinforced slabs.
2. Design of post-tensioned concrete slabs.
3. Designing Concrete shearwalls as part of lateral system.
4. Design of spread footings, strip footings and mat foundations.

REPRESENTATIVE PROJECTS

1. Mercy - Sherman Oaks
4 story wood construction over 2 story concrete levels. (March 2020 - Present)

I designed a wood gravity and lateral system for the building. I also held the responsibility for designing concrete diaphragms, concrete shearwalls, and concrete slabs.

2. Fremont - Marriott AC Hotel
6 story modular steel construction over 1 story concrete podium. (March 2020-Present)

I designed miscellaneous framing for steel modular construction. I also designed concrete gravity and lateral systems. Designed Post-tensioned slab with stud rails, designed concrete elevator core walls as shearwalls, designed footings, steel canopies, and misc connection detailing.

3. Menlo Portal
5 story wood levels over a 2-story concrete podium.
Designed PT slabs, Columns & Mat Foundations.

4. HUB @ S Fig
5 story wood levels over 1 story CFS level over a concrete podium.
Designed Wood & CFS gravity framing and lateral framing design. Misc detailing for various conditions.

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

Structural, 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



DEGREES EVALUATED

| Institution/Degree | Country | Language | Courses |
|---|---------------|----------|---------|
| University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering 08/01/2012 — 05/01/2016 | India | English | 47 |
| University of Southern California / Masters in Civil Engineering 08/01/2016 — 05/01/2018 | United States | English | None |

COMPARABILITY SUMMARY

Outcome: Not Equivalent

| Area | Hours | Deficiency |
|-------------------|----------|-----------------|
| Math/Science | 32 / 32 | None |
| Engineering | 63 / 48 | None |
| General Education | 9 / 12 | Missing 3 hours |
| Elective/Other | 36 / N/A | None |

SPECIAL NOTE

The NCEES Engineering Education Standard requires 12 college semester credit hours in general education that complement the technical content of the curriculum. Courses that instill cultural values are acceptable, while routine exercises of personal craft are not.

Specified Criteria Hours: 32

| Course | Institution/Degree | U.S. Credits |
|-----------------------------------|--|--------------|
| Calculus I | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Calculus II | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Calculus III | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Chemistry | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 4.0 |
| Engineering Geology | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Engineering Mechanics | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Fluid Mechanics I | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Physics: Calculus Based | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 4.0 |
| Properties & Testing of Materials | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Strength of Materials | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |

Total semester credit hours earned: 32.00

Specified Criteria Hours: 48

| Course | Institution/Degree | U.S. Credits |
|------------------------------|--|--------------|
| Air Pollution | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Civil Engineering | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Dam Engineering | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Electrical Engineering | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Electronic Engineering | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Environmental Engineering I | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Environmental Engineering II | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Fluid Mechanics II | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Foundation Engineering | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Geotechnical Engineering | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Hydrology | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Infrastructure Systems | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Mechanical Engineering | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Project | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 6.0 |
| Structural Analysis I | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Structural Analysis II | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Structural Design I | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Structural Design II | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Structural Design III | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Transportation Engineering | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |

Total semester credit hours earned: 63.00

GENERAL EDUCATION

Specified Criteria Hours: 12

| Course | Institution/Degree | U.S. Credits |
|--|--|---------------------|
| Employment & Career Preparedness | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Social & Personal Decision Making Skills | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Technical Communication | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |

Total semester credit hours earned: 9.00

ELECTIVE/OTHER

Specified Criteria Hours: N/A

| Course | Institution/Degree | U.S. Credits |
|---------------------------------|--|--------------|
| Architectural Construction | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Architecture & Town Planning | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Building Technology | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Computer Programming I | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Computer Programming II | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Development of Green Buildings | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Engineering Graphics I | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 1.0 |
| Engineering Graphics II | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 1.0 |
| Project Management | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Quantity Surveying & Estimation | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Surveying I | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Surveying II | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Total Quality Management | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 3.0 |
| Workshop | University of Pune - Savitribai Phule Pune University / Bachelors in Civil Engineering | 1.0 |

Total semester credit hours earned: 36.00

Total Semester Credit Hours Earned: 140

PROCESS DESCRIPTION

All education is compared to the NCEES Engineering Education Standard

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

This report does not include the assessment of written and oral communication skills, computer skills, the quality of laboratory or

field work, and the scope of design experience, which require an onsite review. Academic records (such as transcripts and catalogs) do not document qualitative factors and practical constraints to desirable outcomes.


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

SHEEBA ROSE MARY SUSAI MANICKAM (13-790-67)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL


 Applying To **Nevada**

Application Type **Initial - PE**

Application Date **07/16/2021**

Citizenship **India**

SUMMARY



 Engineering Experience after EAC degree


Total Engineering Experience **8 years, 10 months**

Experience under licensed engineer **5 years, 9 months**

Other Experience **7 months**

Disciplinary Action **None reported**




EDUCATION

 Bachelors in Civil Engineering
Anna University
August 2005–April 2009

Masters in Environmental Engineering
University of Cincinnati
August 2010–August 2012

EXAMS

 Fundamentals of Engineering (FE)
Michigan PE
April 2012

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

LICENSES

 Additional Licenses **None**

SHEEBA ROSE MARY SUSAI MANICKAM (13-790-67)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Cognizant Technology Solutions
Tamil Nadu (India)
Programmer Analyst
December 2009—July 2010

Verified by
Saranya Kesavan
saranya.spatial@gmail.com

Experience Summary
Full-Time
Other: 7 months
Experience under licensed surveyor:
None



TASKS

- Performed software testing to verify whether applications developed by the team meet clients' requirements and ensure quality of deliverables
- Documented detailed test case scenarios based on clients' business requirements
- Prepared reports on the test results and created help documents for end users
- Facilitated client engagements and actively participated in application quality improvement



REPRESENTATIVE PROJECTS

Travelers Insurance, QA/QC
Created test cases for new application.
Updated testing documentation.
Coordinated with business analyst to understand client requirements.
Duplicated reported defects and documented findings.

SHEEBA ROSE MARY SUSAI MANICKAM (13-790-67)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Citizens Energy Group
Indiana (United States)
Utility Distribution Systems Analyst
August 2012—September 2015

Verified by
Christina Bowers
CBowers@citizensenergygroup.com

Experience Summary
Full-Time
Engineering: 3 years, 1 month
Experience under licensed engineer: None



TASKS

Utility Distribution Systems Analyst:

- I performed water distribution modeling and data analysis.
- I evaluated existing system needs. I identified and recommended system improvements.
- I provided support to optimize system operation (pressure, flow, quality, etc).
- I completed various spatial and statistical analyses and assembled data in exhibits and reports as required.



REPRESENTATIVE PROJECTS

Water Model Update and EPS Calibration, Citizens Energy Group, Indianapolis, Indiana, 2012 - 2013

I performed model build and calibration of the all pipe model (~4500 miles) in InfoWater. I evaluated the GIS database for data integrity including pipe size, valve positions and pressure boundary verifications. I was also involved in field testing planning and scheduling. I calibrated the model for maximum and average day demand conditions.

Yield and Demand Study, Citizens Energy Group, IN, 2013

I was primarily responsible for quality control of billing reports. I calculated the real losses in the system. I developed a visual basic script in excel that would facilitate future computations. I assisted in the demand projections for the entire system. I also assisted in report writing.

Booster Station Analysis, Citizens Energy Group, IN, 2014

I evaluated the possibility of converting an existing treatment plant to booster station. I modeled various alternatives including pipe upgrades. Modeling results were used to determine the required design flow and head at the pump station. I prepared maps for each alternate and assisted in conducting a workshop discussing various alternatives.

Model Development, City of Westfield, IN, 2014 - 2015

I modeled the water distribution system for the city of Westfield using InfoWater. I evaluated the GIS data for discrepancies in pipe size, material and any network disconnects. I performed hydraulic analyses to determine system improvements required to meet existing and future demand conditions.

SHEEBA ROSE MARY SUSAI MANICKAM (13-790-67)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

*Stantec Consulting Services
California (United States)
Engineer in Training, Civil
October 2015—July 2021*

*Verified by
Carl Chan
Carl.Chan@stantec.com*

*Experience Summary
Full-Time
Engineering: 5 years, 9 months
**Experience under licensed engineer:
5 years, 9 months***



TASKS

- I perform hydraulic modeling. This includes model build, calibration/verification of hydraulic model for water distribution and collection system.
- I perform hydraulic analyses to evaluate system performance and recommend system improvements.
- I have done master planning for water and wastewater networks including sizing of pump stations, storage tanks, pipeline, and flow control structures.
- I model engineering solutions to mitigate effects of development, to solve sewer flooding and address unsatisfactory overflows.
- I prepare cost estimates for project design and construction of capital improvement projects.
- I also write technical reports for projects.



REPRESENTATIVE PROJECTS

Water Model Development and Calibration, Grand Isle, LA 2015 - 2016

I developed the model for the Grand Isle water distribution system in H2OMap software. I calibrated the model for static and fire flow conditions. This included adding additional pipeline not in GIS to the model, analyzing SCADA data, developing pump curves from field tests, developing diurnal curve and demand allocation in the model. I performed system assessment runs and assisted in preparation of reports.

Wastewater Treatment Facility Integration Feasibility Analysis, Chicopee Water Pollution Control, MA, 2016 - 2017

I performed hydraulic evaluation of the available capacity in the existing Connecticut River Interceptor of the Springfield collection system to receive additional flows from Chicopee on the east side of the Connecticut River. I modeled the proposed modifications to the York Street pump station and Connecticut River crossing. I evaluated other potential add-on projects that might be required to accommodate the additional flow. I was responsible for writing the technical memorandum.

Water System Evaluation, White Oak, GA, 2017-2018

I was responsible for the hydraulic evaluation of the FDA White Oak campus water distribution system. I evaluated the ability of the system to accommodate additional demand resulting from anticipated building expansion. I validated the model using pressure and flow data from the field. I also performed fire flow analysis as part of this evaluation.

Master Plan Update, City of Buckeye, AZ, 2018

I worked on the modelling and hydraulic analysis of the new water treatment campus service area. I reviewed the existing water model in Infowater and made enhancements as necessary. I calculated demand projections for the service area. I performed hydraulic analyses to determine system deficiencies for different planning horizons through build-out. I recommended infrastructure improvements. I established triggering criteria for each improvement identified. I was also responsible for drafting the report.

Water System Assessment, Kelso Conservation Area, Canada, 2018

I assisted in the hydraulic analysis of required upgrades to existing infrastructure to provide adequate service to the Kelso CA area. I proposed solutions required to meet City standards. I prepared maps to present results. I also assisted in the preparation of the water system assessment report.

Tinkham Road Sewer Capacity Analysis, Springfield Water and Sewer Commission, MA 2018

I evaluated the capacity of a local sewer in the Springfield collection system. As part of this evaluation, I calibrated the model network tributary to this sewer using the available meter data. I analyzed the meter data, calculated dry weather flow and developed diurnal patterns for subcatchments. I calibrated the model for dry weather flow and wet weather conditions. I assessed

the potential hydraulic impact of addition of wastewater flows from the proposed development to the existing sewer system. I was responsible for writing the report on the calibration process, calibration results and system capacity assessment.

Master Plan Update, City of Henderson, NV, 2019-2021

I developed the hydraulic model for the City of Henderson. I built the 1:1 model integrated with GIS. I performed model calibration of the system consisting of 34 pump stations, 46 reservoirs and 115 pressure reducing valves. I performed hydraulic analyses to identify system deficiencies. I calculated the future demands for the system using population projections through build-out. I recommended system improvements including new pump stations, storage tanks, pressure reducing valves and pipe network for various planning horizons to meet City standards. I prepared cost estimates for construction of various system improvements. Currently I'm working on the Master plan report.

Hydraulic Analysis of Proposed Waterline, Jefferson Parish, Louisiana, 2020

I performed hydraulic modeling to determine pressure and water quality for Barataria waterway. I evaluated different alternatives and recommended pipe sizes to meet the required standards of the Parish. I created exhibits for various alternatives and recommended solution.

Valve Replacement Project - Phase IV, Youngstown, Ohio 2020 - 2021

I provided guidance and training in the development of distribution system hydraulic model for the City of Youngstown. I provided technical oversight on the hydraulic evaluation of reservoir turnover and operation. I performed QAQC on the hydraulic analysis of the feeder lines to the reservoir. I recommended solutions for replacing the existing 48" inlet and outlet valves within the reservoir facility. I also reviewed the report.

SHEEBA ROSE MARY SUSAI MANICKAM (13-790-67)

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

SHEEBA ROSE MARY SUSAI MANICKAM (13-790-67)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

| Start Date | End Date | Reason | Explanation |
|------------|----------|------------|---|
| 05/2009 | 11/2009 | Unemployed | I was preparing for exams to attend grad school and putting together applications for various universities. |

DANIELLE PALFFY (17-344-03)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
07/09/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
4 years, 1 month

Total Engineering
Experience
4 years, 1 month

Experience under licensed
engineer
4 years, 1 month

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering (EAC)
University of Nevada, Reno
September 2013–May 2017

EXAMS



Fundamentals of Engineering (FE)
Nevada
January 2017

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



LICENSES



Additional Licenses
None

DANIELLE PALFFY (17-344-03)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Stantec
Nevada (United States)
Civil Designer
June 2017—July 2021

Verified by
Joseph Adam Mactutis
jmactutis@hotmail.com

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

TASKS

I initially began my career at Stantec as a transportation designer, drafting standard civil design documents including, but not limited to, horizontal control plans, detailed site plans, signage and striping sheets (compliant with MUTCD standards), and traffic signal/plan sheets. My grasp of design advanced through my field experience with the survey team, shooting control points and analyzing existing right of way boundaries. I also assisted the team in obtaining property boundary and road topography data for use on future engineering projects. My experience calculating the technical data compiled through surveys advanced my understanding of how to design proposed improvements based on existing 3D topographic data. I designed more aspects of the project as my experience progressed, including vertical profiles, horizontal sight distance calculations (which I calculated based on AASHTO Green Book guidelines), parking lot layouts (I designed and analyzed based on local city requirements), 3D sidewalk and ramp configurations (with slopes and transitions I calculated based on ADA requirements), intersection grade layouts, and utility alignment and vertical data that I designed to local (Truckee Meadows Water Authority) standards. Overtime, my advanced responsibility on the design components evolved to more project management aspects. I began coordinating with my design team and client/local agencies to analyze existing conditions and determine possible solutions or improvements. Additional project management roles I assisted my team on included scheduling, budgeting of the project for construction bidding, and in-field review of issues and determination of solutions while the project is in the construction phase. My increased experience and knowledge of engineering design has helped me to create a product that not only served the purposes required of it, but was comprehensible and constructible once the project advanced to construction.

REPRESENTATIVE PROJECTS

When I first started at Stantec, the majority of my work consisted of designing road alignment stationing, vertical roadway profiles, site plan components (such as lane widths, median configurations, and sidewalk), conducting and analyzing traffic count and turn movements, and field identifying and calculating survey data control points. One design project included the Evans Avenue Bicycle Improvements project (June 2017 to December 2017). I refined the design of ramps to ADA specifications by creating points to determine stationing and elevations of ramps and the tie-ins to sidewalk, curb, and gutter. I calculated the necessary striping requirements based on MUTCD requirements and drafted them for plan sheets. I also helped design the Reno-Tahoe International Airport Ground Transportation Parking Lot, Reno, Nevada (January 2018 to August 2018). With the assistance of the project engineer, I designed the parking lot surface grading by calculating necessary drainage based on the existing drain system. I analyzed the proposed vertical profiles for the parking lot for adequate drainage and any utility conflicts.

Project #1, Long Island Railroad Design-Build in Nassau County, New York, New York (August 2018 to February 2019). The project consisted of a number of packages corresponding to each of the railroad grade crossings. I helped compile project packages by designing railroad station improvements, analyzing the elimination of seven street-level grade crossings, and designing temporary and permanent roadways. To calculate necessary design improvements, I analyzed vehicle tracking analysis, designed signal modifications, graded surfaces for pavement and drainage, developed lane layout striping and signage, and communicated with various disciplines for congruence of improvements. I assisted the structural team by grading and surface re-design of track bridge abutments and wing walls at grade crossing locations. Through my time on this project and its many engineering components, I gained a greater comprehension of roadway design to provide an exceptional package for clients.

Project #2, the Regional Transportation Commission's (RTC) TE Spot 8 – Package 2 Intersection Project, Reno, Nevada (February 2019 to September 2020). The project consisted of two intersections: Red Rock Road/Silver Lake Road and McCarran Boulevard/US-395 Northbound off/on-ramp. I took over the design plan set from a coworker at 50% completion in 2019 and saw it through 100% design and construction, which occurred in the summer of 2020.

I was the lead staff designer responsible for this intersection project, assisting the project engineer with design. The elements of design I worked on included ADA compliant sidewalk and ramps, lane layout configuration with corresponding striping and

signage, traffic turning templates to determine adequate medium design for vehicle and truck turning radii, and traffic signal layouts. Aspects of the final plan set included horizontal control plan, detailed site plan, signage and striping sheets, and traffic signal plans for the two intersections in the package. Prior to construction, I was responsible for obtaining encroachment permits within the Nevada Department of Transportation's right-of-ways, confirming compliance of design based on the state's roadway design standards. During the construction phase, I took on more of the project management aspects for the job by leading weekly field checks and verifying the construction team's work relative to design.

Project #3, Oddie Boulevard/Wells Avenue Corridor Project, Reno/Sparks, Nevada (May 2018 - 2021).

For this project, I helped design the improvements for the existing road, pedestrian and bicycle facilities, fence and wall enhancements along adjacent roadway parcels, traffic signal intersections, and the proposed storm drain utility alignments and crossings. To determine the necessary improvements along the corridor, I analyzed traffic safety improvements, horizontal lane layouts and vertical profiles, and driver sight distance. Based on AASHTO guidelines and by cross-referencing the geotechnical report for the existing pavement, I calculated pavement section thickness requirements for roadway surfaces. I implemented the pavement thicknesses and designed the surface grades of the roadway corridor, intersections, curb and gutter, and sidewalk. I followed the MUTCD guidelines to design the lane striping layout and signage requirements along the corridor. Final civil plan documents that I assisted in designing and compiling included horizontal control, general site plan and vertical profiles, detailed intersection plan and profile alignments, striping and signage, fence and wall plan layouts, retaining wall profiles, traffic signal plans, and details depicting median and ramp layout and elevations.

DANIELLE PALFFY (17-344-03)

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

ANDREW POUSTIE (17-208-24)


All work experience reviewed by two licensed professionals




DISCIPLINE: CIVIL

GENERAL

 Applying To **Nevada**
Application Type **Initial - PE**
Application Date **07/23/2021**
Citizenship **Australia**

SUMMARY


 Engineering Experience after EAC degree **2 years, 6 months**
Total Engineering Experience **2 years, 6 months**
Experience under licensed engineer **2 years, 6 months**
Disciplinary Action **None reported**

EDUCATION

 Bachelors in Civil Engineering (EAC)
University of Nevada, Reno
August 2012–December 2016
Masters in Civil and Environmental Engineering
University of Nevada, Reno
January 2017–December 2018

EXAMS

 Fundamentals of Engineering (FE)
Nevada
November 2016
Principles and Practice of Engineering (PE)
Civil
Nevada
April 2021

LICENSES

 Additional Licenses **None**

ANDREW POUSTIE (17-208-24)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Stantec
Nevada (United States)
Environmental Engineering EIT
January 2019—July 2021

Verified by
Steven Douglas Winfree
steven.winfree@stantec.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

Process Design Engineering: Create calculations used to size water and wastewater process equipment (valves, pipe, pumps, blowers, UV reactors, chemical feed systems), develop preliminary site layouts, perform technology reviews of various vendors to identify process equipment and develop process alternatives that meets design standards (AWWA, ASME, etc..) to present to clients and senior staff, write technical memoranda and process sections of BODRs and other engineering reports, develop detailed mechanical and instrumentation design drawings using drafting software or 3D modeling software, develop equipment specifications, review process and mechanical calculations and detailed drawings.

Project Engineering: Review detailed drawings, specifications, and other bid documents, review shop drawings and submittals, review and respond to requests for information, assist senior staff with value engineering analyses, supervise design personnel, present technical recommendations and alternatives to senior staff and clients, review vendor information to assure compliance with specifications, write operation and maintenance manuals and procedures, prepare cost estimates.

Field Engineering: Conduct field investigations to identify project needs and to perform construction inspections ensuring the construction and installation are according to installation manuals, procedures, and project drawings, participate in pilot testing and make recommendations on process changes to meet permit conditions.



REPRESENTATIVE PROJECTS

Representative Projects

Truckee Meadows Water Association – Mount Rose Water Treatment Plant Construction Management Services (January 2019 – June 2021). This water treatment plant design project is based in Reno, Nevada. As a Process Design Engineer, I developed operation and maintenance manuals, developed a process control narrative, updated project drawings, and reviewed and responded to civil and mechanical submittals. As a Field Engineer, I performed on-site inspections during construction, ensuring that construction and installation were according to installing manuals, procedures, and project drawings.

East Bay Municipal Utility District – Chemical Systems Safety Improvements Project (September 2019 – Present). This water treatment plant retrofit project is based in the San Francisco Bay area, California. As a Process Design Engineer, I provided technical support for the retrofit of a number of water treatment plants by designing chemical feed systems and piping configurations. I performed data analysis, developed process control narratives, updated project drawings, and developed a phasing scheme to be used during construction to maintain continual plant operation.

Truckee Meadows Water Authority – OneWater Indirect Potable Reuse Monitoring (October 2019 – November 2020). This indirect potable reuse pilot project is based in Reno, Nevada. As a Field Engineer, I was onsite as a Design Consultant during pilot testing of an indirect potable reuse system located at the Reno-Stead Water Reclamation Facility. I performed wastewater sampling, data analysis, and recommended process changes to the engineer(s) of record on how to modify and optimize the indirect potable reuse system in the field (by adjusting ozone flow rates and chemical feed rates) to achieve target effluent concentrations.

Los Angeles District of Water & Power - San Fernando Groundwater Remediation (Project # 47525) (October 2019 - Present). This water treatment plant design project is based in Los Angeles, California. As a Process Design Engineer, I designed a UV Advanced Oxidation process utilizing hydrogen peroxide. I analyzed historical water quality data, calculated required UV and hydrogen peroxide doses, developed technical memoranda and the UV/AOP section of a Basis of Design Report, and reviewed vendor UV/AOP system packages and specifications.

Spanish Fork and Mapleton Cities – Water Reclamation Facility (October 2020 – Present). This wastewater treatment plant design

project is based in Spanish Fork, Utah. As a Project Engineer, I performed a technology review of membrane bioreactors and associated chemical systems, wrote technical memoranda for a Basis of Design Report, and evaluated contractor and vendor proposals. As a Process Design Engineer working on the chemical storage and delivery system, I calculated chemical storage requirements and used these calculations to size process equipment (pipes, valves, pumps etc.). I also developed technical specifications for pre-procurement packages for a membrane bioreactor.

Other Minor Projects:

Alpine Springs County Water District – Tank 4A Replacement (February 2019 – January 2021). This water storage tank replacement project is based at the Alpine Meadows Ski Resort, California. As a Project Engineer, I reviewed and responded to mechanical and civil submittals, updated project drawings, and performed on-site inspections during construction of the tank.

Nevada Department of Transportation – Trento Yard Replacement Well (October 2020 – Present). This potable well installation project is based in Fallon, Nevada. As a Process Design Engineer, I sized and designed a conveyance system for a potable well at an existing NDOT facility.

Magna Water District – Reuse Improvements (January 2021 – Present). This wastewater treatment plant retrofit project is based in Magna, Utah. As a Process Design Engineer, I analyzed historical water quality data, reviewed vendor proposals for a disc filtration system, and developed technical memoranda.

ANDREW POUSTIE (17-208-24)

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, Environmental, 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

ANDREW POUSTIE (17-208-24)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

| Start Date | End Date | Reason | Explanation |
|------------|----------|------------|--|
| 12/2011 | 07/2012 | Unemployed | Finished high school in Australia in December 2011 and then started as a freshman in college in the US in August 2012. |

STEFANIE REICHMAN (16-386-49)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
08/03/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
4 years, 3 months

Total Engineering
Experience
4 years, 3 months

Experience under licensed
engineer
1 year, 10 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering (EAC)
CUNY, City College
August 2012–June 2016

Masters in Civil and Environmental Engineering
University of Wisconsin, Madison
August 2016–May 2018

REFERENCES



EXAMS



Fundamentals of Engineering (FE)
New York
March 2016

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

LICENSES



Additional Licenses
None

WORK EXPERIENCE

University of Wisconsin - Madison
Wisconsin (United States)
Instructor for CEE 392 (Building
Information Modeling) and Research
Assistant
January 2017 – May 2018

Verified by
Awad S Hanna
ashanna@wisc.edu

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

TASKS

My role as the instructor for the CEE392 Building Information Modeling course was to introduce Revit architectural, structural and HVAC component modeling to the students as well as Navisworks which provided the skills for clash detection. My responsibility was to teach the concepts and technical abilities and balance those with the requirements set out by the ABET Accredited College of Engineering and Civil Engineering Department. This would require my advanced preparation of lectures and demos so they would be clear and concise.

I analyzed the class syllabus to include relevant course changes along with industry relevant speakers. I made several changes to the syllabus so we had more time to focus on lectures relating to HVAC lessons as well as the intricacies of above ceiling work and how those impact later lessons relating to Navisworks and clash detections. Overall, I treated the course as a planned series of classes rather than separate lessons. Teaching different skills showed a higher level of engagement with students who were then able to make connections between various skills and concepts, which were previously harder to make. I spent 50% of my time as an instructor for this course, which had around 30 students per semester, consisting of Juniors, Seniors and graduate students.

I supervised and trained 2 undergraduate senior students to assist in grading and teaching.

I was also a Research Assistant alongside being an instructor. As part of the research I analyzed 10 years of data supplied by the Wisconsin Department of Transportation (WisDOT) through different statistical methodologies. I wrote and defended a thesis entitled "The Effects of Specification Changes on Newly-Constructed Pavement". The research yielded my ability to produce conclusions and recommendations to WisDOT on future changes to the specifications. I spent 50% of my time on my research activities.

REPRESENTATIVE PROJECTS

The course is centered around a final project. The project consisted of modeling the architectural, structural and part of the MEP for a building on the UW campus. It also required the students to run a clash detection on their models and resolve as many clashes as possible. Mortenson provided drawings for a building on campus for this project. As part of my responsibilities, I reviewed the drawings and determined which elements of the building would require additional instruction, particularly around the creation of new families and elements. In turn, I was required to make necessary additions to the lesson plans that reflected these changes in the students' required coursework. At different intervals I analyzed the student's projects and evaluated them based on the accuracy of the model as compared to the drawings, along with modeling best practices such as drawing creation and layout. At the end of the semester, the teams presented their final project to myself and Mortenson Representatives, and were scored based on organization of their final presentation, team organization and process, design process and results, Navisworks coordination, difficulties encountered and lessons learned, graphics (which included a walkthrough and 4D timeline),

Students utilized different skills in order to produce a model that was able to be constructed, in a manner mimicking real construction timelines and teamwork. A heavy focus was placed on the importance or intricacies of setting up files in a manner that allows all the different trades to interact with the pieces of the model that they need for their own design. Students also created renderings and walkthroughs which showed the visual power behind the creation of the model. In their presentation, students showed renderings for different options for a flex space which the grader (or owner) could better understand and decide a design based on the images.

For the students to successfully complete their projects, I reviewed the drawings for the buildings and identified items that needed better lesson planning, or more detail, this included lessons on sloped tapered retaining wall, and sheet naming requirements. The

course also covered the importance of door schedules, room tagging, annotations and their significance in construction and estimating.

As part of my research responsibilities I wrote a Thesis entitled “ The Effects of Specification Changes on Newly-Constructed Pavement” and had to defend this thesis in front of 3 professors, and my fellow graduate students in the Civil Engineering-Construction Management program. The statistical methods I used in order to analyze the data provided by WisDOT was the Kruskal Wallis Wilcoxon Rank Test and Binomial test. Because of the large quantity of data provided, I utilized the median absolute deviation (MAD) outlier removal procedure to ensure data confidence. I evaluated the data and produced an analysis plan in which the data was separated into three evaluation groups- ride analysis, localized roughness and warranty analysis. I compared the data for each type of pavement within each evaluation group to determine the efficiency of the specification changes, and to show which changes led to smoother pavement. I also evaluated the smoothness between the four different asphalt types and three concrete pavement types. In the final part, I evaluated methodologies to optimize the payment goals set out by WisDOT where $\frac{2}{3}$ of their segments are to be within the “straight pay” category. All this work was completed by me, under the guidance of my advisor.

WORK EXPERIENCE

Realtime Utility Engineers
Wisconsin (United States)
Assistant Project Manager
May 2018—March 2019

Verified by
James James HELVIG
JHelvig@rue-inc.com

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



TASKS

As an assistant project manager, working for a substation and transmission line design engineering company, my responsibilities included working closely with the engineering staff and project owners to identify project needs, set and maintain budgets and schedules, and close out projects.

I created, maintained and upheld the design schedules which are created in tandem with client requests and external factors such as planned outages and on-line dates for substations.

I worked closely with owners to develop RFPs, in addition to working with the engineering staff to respond to RFPs and proposals. Where I was responsible for the schedule, and budget aspects.

For each project that I managed I would meet with the supervising engineer to develop an execution plan that the whole team felt comfortable committing too. As an assistant project manager my responsibility included submitting schedules and budgets to the VP of Engineering for approval.

My role also included the forecasting of any potential change orders to a project, which I would write up, assign hours (and money) to, then review with the engineering staff and management.

At the end of each month, I was required to put together cash flows for all my projects which were shared internally and with the clients. In some cases, I was required to put together accrual reports.

I also had several projects that were transitioning from design to construction jobs, for which I would participate in the construction calls and facilitate any questions that construction might have for the engineers on the project.

In addition, I made field visits to at least half the projects that I managed.



REPRESENTATIVE PROJECTS

Beaver Valley

Beaver Valley was a project that I was a part of from the RFP phase through the end of design. The project consisted of several towers within a substation that had to be replaced or rehabbed. One of my first tasks on this job was to go on a field visit and analyze what the existing conditions were of the different towers. Alongside the engineer, I helped determine how many towers needed replacing, to what level, and in what order.

For this project I generated the engineering cost estimate, then produced the cash flow to match.

Additionally, I created and optimized the construction schedule based on the clients needs.

I provided the owners with monthly updates on both the schedule and cash flow, created a monthly work report and participated in all the design coordination calls.

I also produced and maintained documentation relating to this project which included change order logs, submittal logs, action logs, meeting agendas and meeting minutes.

Diesel Generator Upgrade Projects

I typically worked with one project manager/owner on several different projects. As such, when the owner determined a need, they would call on me to start creating proposals and scheduling the manpower for that work. The generator upgrade project was one such series of projects.

Having previously worked with this client, the project manager identified seven different diesel generators that had to be upgraded. Based on discussions with the client, I assigned a priority and a time frame, for example; high priority to be completed this year or low priority awaiting further information for timeline. Some of these upgrades were more simple than others that required a complete replacement of substation equipment and for the substation to be brought up to standards. Based on the clients needs and the company's manpower I ranked all seven.

In all these cases I would first request the drawings, and whatever information was available by the client. The engineer would review this information and give an assessment of time and a general scope. I would put those together and assign the cost as well as prepare and submit the proposal to the client.

WORK EXPERIENCE

Burke Construction Group
Nevada (United States)
Virtual Design and Construction
Manager
March 2019—August 2021

Verified by
Thad Lawrence
tlawrence1600@gmail.com

Experience Summary
Full-Time
Engineering: 2 years, 5 months
Post EAC degree: 2 years, 5 months
Experience under licensed engineer: None

TASKS

I create, present and execute the Burke BIM execution plan for each project where BIM is utilized. I perform model verification and validation in accordance with the execution plan.

Through establishing reporting standards and setting key performance indicators, I track VD&C program performance measures, set goals and develop plans for continuous improvement of tools and outcomes.

I create, manage, maintain and uphold coordination schedules which are created in conjunction with construction schedules.

Whenever a site clash arises, I use my experience and engineering judgement to help mitigate the problem, and in turn, prevent delays while maintaining work completion standards.

I independently took the Drone License exam. I help project teams utilize our drone maps to extract cut and fill calculations, as well as identify safety issues, laydown areas and general site layout.

I continually research, present and implement new technology to job sites as needed, working with the project operations team to understand project pain points and find technology to assist.

I have completed a sun study to assist our operations team in determining the location of sun cover.

I work alongside subcontractors in clash resolutions that are cost effective and constructable. Additionally, I review models and drawings to find potential efficiencies in the number of bends or complicated runs that can be streamlined for simpler, more easily constructible designs.

Through my understanding of key performance indicators, I developed a dashboard for the senior management team, who utilize the CERM data to drive better informed decisions.

When a developer obtained a plot of land and needed to finalize a contract, I utilized various softwares as well as my code knowledge to create an 80,000 sqft and a 100,000 sqft building site layout while determining the parking requirements as well as offsetting requirements from the street and building.

REPRESENTATIVE PROJECTS

Nevada State College

I completed the BIM coordination for a 2 story university campus building. Ultimately finding and resolving over 800 (grouped) clashes, and having 0 RFIs for above ceiling work, as a result of diligent coordination.

The owners for this project are in Reno, Nevada and the project is in Las Vegas. Construction had just started when the Pandemic began. Still wanting the Owner to be involved, I used my experience to find a solution that was easily implemented by our on site team, and allowed for anyone to view the site progress. After reviewing four different software solutions, and analyzing them based on ease of use, cost and quality of output, I found a solution. The solution was so successful that it now is a standard for larger projects. Once decided upon, I researched, presented and selected the solution, then provided the training and set up for our operations teams.

I performed value engineering analyses as part of estimating the Furniture, Fixtures, Equipment and Signage packages for this

project. I completed project estimates based on drawings from the architects, solicited and leveled bids and met with top subcontractors for full scope understanding. Ultimately, I made a recommendation for the final selection by working closely with the owner and architect to ensure that design intent was met and that I performed value engineering in an effective manner.

Credit One Phase II

I completed the BIM coordination for a four story concrete tilt building with a complex tenant build out. Ultimately finding and resolving over 1,800 (grouped) clashes, which reduced to an estimated 5+ weeks of schedule saving and \$1.5 million in savings for redesigns and rework.

For this project, the mechanical system required extremely large ductwork and large shafts. The owner of this class A office building was incredibly sensitive to lowering ceilings. By reviewing drawings with the subcontractors, the engineers and the architect, I was able to reroute ductwork and fire lines so the ceilings did not need to be lowered. Additionally, the electrical team was able to find a lower profile light under my suggestion, which gave the mechanical team several additional inches above the ceiling.

I prepared weekly progress reports, to be shared with the owners and project teams, which kept track of active and closed clashes.

UnCommons

I managed the BIM coordination for 2 precast parking garages and two office buildings through weekly coordination meetings, and bi-weekly reports. Ultimately resolving over 1200 (grouped) clashes.

I assisted in development tasks such as project futureproofing, and I programmed these items into the drawings. These items include drone delivery and cellular connectivity of the campus. In addition, I perform constructability reviews and provide design input based on reviews.

This project had an extremely tight schedule. As such, I analyzed the different coordination methods and timelines such as which buildings should be coordinated first, and whether to take a bottom up or top down approach. I provided a cost benefit analysis of providing coordination for each particular building (the project is a mixed use campus) in order to best utilize our resources.

I reviewed particular fire and plumbing codes to ensure that coordination, and rerouting of elements meet standards set out by the jurisdiction.

I provided weekly updates to the project owners, and operations team verbally, as well as coordination reports to the entire team (owners, architects and engineers) on a bi-weekly basis. Additionally, I deliver presentations on BIM and new technology (drones and 360 cameras) that are being implemented to project investors, ownership team and risk assessors.

I performed risk assessment for the relocation of particular underground piping, particularly, the movement of a six inch grease interceptor which ultimately had to be bored through a 16 ft deep foundation out of the building after I reviewed the different re-routing options and determined this to be the best solution.

I am now a part of early design discussions with the engineers and designers where I locate specific areas for main lines of ductwork along with fire risers to mitigate coordination in the later stages. I have input that drives the design with the responsibility of oversight of these trades with our precast teams.

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

BRYAN SARMIENTO (16-189-14)

All work experience reviewed by two licensed professionals

1094 Bradley Bay Avenue
Henderson, NV 89014

DISCIPLINE: CIVIL

GENERAL

 **Date of Birth**
07/15/1993

Phone Number
(702) 335-2260

Birthplace
Guam, Guam, Guam

Email
sarmientob2@gmail.com


Applying To
Nevada

Application Type
Initial - PE

Application Date
07/19/2021

Citizenship
Guam



SUMMARY



 **Engineering Experience after EAC degree**
5 years

Total Engineering Experience
5 years

Experience under licensed engineer
5 years

Disciplinary Action
None reported

EDUCATION

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

REFERENCES

 **Oscar Inez Quiroz P.E.**
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Joshua Lee Johnson P.E.
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Derick D.J Yoro P.E.
derick.yoro@westwoodps.com | (702) 527-6664

Matthew David Burge P.E.
matthew.burge@westwoodps.com | (702) 467-5984

Timothy Michael Mulrooney P.E.
tim.mulrooney@westwoodps.com | (702) 284-5300

EXAMS

 **Fundamentals of Engineering (FE)**
Nevada
November 2015

Principles and Practice of Engineering (PE)
Civil
Nevada
October 2017

LICENSES

 **Additional Licenses**
None

WORK EXPERIENCE

Slater Hanifan Group
Nevada (United States)
Graduate Engineer
June 2016—June 2018

Verified by
Timothy Michael Mulrooney
tim.mulrooney@westwoodps.com

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

TASKS

I was hired at Slater Hanifan Group in the Land Development Department; my team specializes in designing residential subdivisions with the use of AutoCAD Civil 3D. This branch of engineering focuses on the feasibility of developing a residential subdivision given the restrictions and constraints of the surrounding area. We design a site and prepare a set of plans that includes the grading, details, plan and profiles, utilities, and traffic plans. At the end of design, we lay out the product on each lot to provide to the client and agencies for approval and construction.

My official title was Engineering Intern I and later promoted to Graduate Engineer. My main responsibility was the preparation of plot plans, lotfits, and model home complexes for various projects. Plot Plans involved the placing of homes on requested lots and ensuring these homes fit within the designated setbacks. Lotfits are exhibits that show the entire site with each individual home to help the client identify which product and options will work on a given lot. Model home complexes are similar to plot plans, but they possess additional design elements such as parking lots and walkway design. At the same time, I was being trained to address redline comments from the agencies and prepare improvement plans.

These tasks became crucial for clients since they were time sensitive and would be seen by home buyers. I was responsible for coordinating with clients to determine the optimal placement of these homes and to ensure grading and utilities for these homes would work without any issues. Some of the engineering decisions that I had to make would involve having to move the house due to grading constraints or utility conflicts. These decisions could not be made easily since it required coordination with my coworkers and the client.

REPRESENTATIVE PROJECTS

Rhodes Ranch South Phase 3, 4, & 5 (2016-2018) - Clark County, Nevada - Engineering Intern I

Located southwest of the intersection of Fort Apache Road and Sherwood Greens Drive; this project is a single-family residential subdivision of 45 acres with 241 total lots. I prepared plot plans by placing homes in required setbacks, calculated driveway slopes, checked for lot drainage, checked for service lateral conflicts, and coordinated with the clients in order to submit to the agencies in a timely manner. A plot plan was done for every lot in this project.

Dean Martin 9.5 & 4.0 (2017-2018) - Clark County, Nevada - Engineering Intern I

Located northwest of the intersection of Southern Highlands Parkway and Dean Martin Drive; this project is a single-family residential subdivision of 16.1 acres and has 96 total lots. I assisted with the preparation of improvement plans which includes: grading plans, detail sheets, plan & profile sheets, utility plans, and traffic plans. I provided up to date information for the construction notes in order to demonstrate the proper construction required. I created detailed cut sections to supplement the understanding in problematic areas. This project in particular possessed multiple utility conflicts; therefore, I was responsible for checking utility crossings and fixing areas with unacceptable vertical separations.

Skye Canyon II Parcel 2.21A Phase 1 & 2 (2017-2018) - City of Las Vegas, Nevada - Graduate Engineer

Located on the northwest corner of the intersection of Grand Teton Drive and Egan Crest Dr; this single family residential subdivision is 15.1 acres with a total of 106 lots split into two phases. During the preparation of the improvement plans, I designed the details and traffic plans for the project. The details I designed depicted a cut section showing further information of the planned construction in a given area. For the traffic plan design, I was responsible for street sign placement, street striping, streetlight placement, and the design of sight visibility zones. After submittals and receiving the plans back from the agencies, I addressed redline comments for first, second, and mylar review for this project. I complied with agency standards and revised the plans as needed in order to obtain approval from the agencies.

Skye Canyon II Parcel 2.20 Phase 1 (2018-2018) - City of Las Vegas, Nevada - Graduate Engineer

Located on the northwest corner of the intersection of Grand Teton Drive and Shaumber Road; this single family residential subdivision is 28.3 acres with a total of 121 lots in Phase 1. I designed the utility layout for this project by adding the water and sewer mains to the site. I accounted for parallel separations between utilities, vertical separations at crossing points, and researched existing utilities to find points of connection and conflicts. In addition, my utility design also included the proper placement of fire hydrants and locations of service laterals for water and sewer to each lot. After the design was complete, I prepared the sheets for the Plan & Profiles and the Utility Plan. The Plan & Profile sheets show the depth of the pipes in relation to the proposed street grades. I calculated and verified that the depths and locations shown for each pipe did not conflict with other utilities and that each met the agency standards. The Utility Plans show the two-dimensional view of the utility layout with associated construction notes for each pipe and structure. I labeled the entirety of the utility layout with correct notes that would be acceptable for the agencies.

WORK EXPERIENCE

Westwood Professional Services, Inc.
Nevada (United States)
Graduate Engineer
July 2018—July 2021

Verified by
Timothy Michael Mulrooney
tim.mulrooney@westwoodps.com

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

TASKS

Westwood Professional Services acquired the offices of Slater Hanifan Group, so most of my tasks and responsibilities have carried over into this company. Currently at Westwood, I hold the title of Graduate Engineer. I am still a part of the Land Development Department working mostly on residential projects. I am responsible for the preparation of improvement plans while also training new hires in AutoCad efficiency and engineering knowledge.

For residential projects, I prepare entitlement packages which mostly involves preliminary designs for the siteplan, tentative map, utility layout, and street grading. When projects are further along, I prepare a more finalized design that is eventually added to the improvement plans. The improvement plans consists of sheets for the grading plan, details, plan & profiles, utility plan, and traffic plan. I am tasked with being able to prepare any of the sheets inside a set of improvement plans. In addition, I will also coordinate with the client and the agencies for any design changes or conflicts. After improvement plans are submitted, I am responsible for reviewing the comments left by the agencies and finding solutions to addressing them. On occasion, some projects require unexpected revisions due to problems in the field. I will assist the client with these problems and revise designs as necessary in order to avoid any issues in the field.

REPRESENTATIVE PROJECTS

Montecito (2018-2020) - City of Las Vegas, Nevada - Graduate Engineer

This project is located at the intersection of Grand Montecito Parkway and Montecito Pointe Drive. It consists of multiple phases of offsite infrastructure plans and onsite residential subdivision plans. The project is approximately 40 acres with a total of 301 lots. I was involved with the plans for Offsite Sewer Infrastructure, Offsite Water Infrastructure, Offsite Roadway along Oso Blanca, Onsite Unit 1, and Onsite Unit 3. I designed the sewer and water for the infrastructure plans which required much coordination in order to properly design for future lots. I had to account for future locations of fire hydrants and service laterals that would eventually serve the lots for the Onsite Unit 1 & 3 plans. For the Offsite Roadway along Oso Blanca, I graded the street with consideration for the upcoming residential units. The grading for the road had to be designed to eventually connect at the intersections and entrances to the project. On the Unit 1 plans, I assisted with portions of the design for the grading, utilities, and traffic plan. I created the sheets for Unit 1 that was submitted and approved by the agency. For the Unit 3 plans, I designed the grading and utilities for the improvement plans. The grading includes the design for street slopes, intersection grading, and setting the pad elevations for each lot. The utilities includes the design for water, sewer, and storm drain. I verified the pipes for the utility design would not conflict with each other and that everything followed the agency standards.

Buffalo & Shelbourne (2020-2020) - Clark County, Nevada - Graduate Engineer

Located northwest of the intersection of Shelbourne Avenue and Monte Cristo Way; this project is approximately 25 acres with 179 total lots. I designed the grading, utilities, and traffic for this project. The grading proved to be a challenge since the existing tie in points for this project did not have a great elevation difference. The streets for this project were relatively flat and caused issues with drainage. I designed a storm drain system that ran through a portion of the site in order to alleviate the drainage issues. The utility design for this project was also an issue because this area fell in between two different pressure zones. I designed the water for this project to have multiple points of connection into the two pressure zones. For the split water design, I coordinated with the water agency for their approval since this was an uncommon scenario.

Rainbow & Cougar (2020-2021) - Clark County, Nevada - Graduate Engineer

Located southwest of the intersection of Rainbow Boulevard and Cougar Avenue; this project has a total acreage of 23.5 with 169 lots. An Offsite and Onsite set of plans were prepared for this project. I designed the offsite utilities for this project in order to create the necessary points of connections required for the Onsite portion. I had to revise the design for the existing utilities within the street in order to accommodate the new water, sewer, and storm drain crossings that would eventually be installed as part of the Onsite plans. There were many conflicts in the field that required a revision to the plans and a new design for some of the

utilities. I coordinated with the client and surveyors to obtain as-built information for the existing utilities and redesigned as necessary in order to resolve the conflicts.

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

EVAN SUSEE (14-646-84)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL


 Applying To **Nevada**

Application Type **Initial - PE**

Application Date **07/22/2021**

Citizenship **United States**



SUMMARY



 Engineering Experience after EAC degree **4 years, 4 months**

Total Engineering Experience **4 years, 4 months**


Experience under licensed engineer **4 years, 4 months**

Disciplinary Action **None reported**


 

EDUCATION

 Bachelors in Civil Engineering (EAC)
University of Maine, Orono
September 2010–May 2014

EXAMS

 Fundamentals of Engineering (FE)
Maine PE
October 2013

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



LICENSES

 Additional Licenses **None**

EVAN SUSEE (14-646-84)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

U.S. Navy/NMCB 4
California (United States)
Company Officer/Project Manager
October 2016—February 2019

Verified by
Joseph W Charles
joseph.w.charles1@navy.mil

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



TASKS

I was assigned as a Company Officer in the Naval Construction Force (NCF). There, one primary role was as a Project Manager of a \$400K project to construct an asphalt parking lot to support Construction Force transportation vehicle maintenance. Another primary role was as Detail Officer-in-Charge, leading and managing 20 personnel, providing general engineering support and completing various construction projects supporting multiple military installations. In this position, I worked under the supervision of four licensed Professional Engineers. As the Officer-in-Charge, I was responsible for all aspects of design and construction of two concrete aprons surrounding storage facilities, hillside stabilization using geogrid, site preparation of a helipad, and providing engineering analysis on existing port and waterfront infrastructure.



REPRESENTATIVE PROJECTS

As an NCF Company Officer/Project Manager, the main engineering work for the parking lot project consisted of the design and construction of a 60,000 square foot parking area in support of NCF vehicle maintenance. This included the demolition of existing pavement and removal of inadequate soil, fill, grading and compaction of base material, installation of concrete apron around an existing garage structure, installation of concrete drainage channels, and asphalt paving. Along with managing all aspects of this operation and overseeing a wide variety of duties performed by the project crew, the specific engineering functions performed are as follows: I developed an activity-on-node project schedule, performed quantity take-offs and created a bill of materials and equipment, performed a survey of the site and determined suitability of geotechnical material, reviewed the generic drawings provided and recommended revisions to meet site-specific criteria, developed supply and logistic solutions to deliver materials and equipment, and reviewed work-in-place through quality assurance inspections on earthwork, concrete, and paving.

EVAN SUSEE (14-646-84)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

U.S. Navy/Naval Base Point Loma
California (United States)
Construction Manager
January 2019—February 2021

Verified by
Carl Cline Chase
carl.chase@navy.mil

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



TASKS

I was assigned as an Assistant Public Works officer and Construction Manager for a wide range of construction projects on Naval Base Point Loma. Throughout my time there, I started with smaller-scale projects and the contract value and complexity progressively increased in size from \$100K to \$5M. In total, I managed ten Design-Build and Design-Bid-Build projects valued at \$12M from requirements development through contract solicitation, design, construction, turnover to end-user and closeout. In this position, I worked under the supervision of four licensed Professional Engineers and in conjunction with multiple licensed Professional Engineers from various disciplines to include, civil, structural, mechanical, fire protection, and electrical.



REPRESENTATIVE PROJECTS

As a Construction Manager and Assistant Public Works Officer, one of the projects I was assigned was the construction of Design-Bid-Build Electrical Utility Poles valued at \$6M intended to move underground electrical lines to overhead due to a slow landslide at the installation. This project improved the resiliency of the utility services provided to a large portion of the base. The old underground electrical lines were compromised and under tension caused by a slow landslide of an above hillside area. The project constructed and installed four steel utility poles with concrete foundations to ensure stability in the event of a landslide and ran new electrical line spliced at an underground connection, strung overhead on the poles, and ran back underground to one of the base sub-stations. During this project a four-day electrical outage that affected 2/3 of the installation was executed, I coordinated back up power for critical infrastructure through the use of generators. I identified the critical infrastructure, made power supply and generator size recommendations based on peak usage data, and coordinated and oversaw the connections of 20 generators at various locations on the installation. The main engineering functions I performed are as follows: I recommended design considerations while leading the team of engineers and architects through the various meetings; I reviewed design and construction quality control plans, health and safety plans, accident prevention plans, traffic control plans, phasing plans, environmental protection plans, and construction and design schedules. I reviewed and provided technical recommendations on contract drawings, specifications, shop drawings, product data samples, design calculations, requests for proposals, system commissioning plans, and Operation and Maintenance data; I reviewed and provided technical responses and direction to Requests for Information; I completed quality control inspections to ensure compliance with specifications and enforced all requirements of the US Army Corps of Engineers Quality Control program; I provided technical interpretations of contract documents and direction to contractors; I developed technical solutions to customer requirements and requests, design issues, and unforeseen conditions during construction; I developed contract scope, engineering estimates, and technical analysis of contractor cost and time proposals.

EVAN SUSEE (14-646-84)

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

EVAN SUSEE (14-646-84)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

| Start Date | End Date | Reason | Explanation |
|------------|----------|------------|---|
| 06/2014 | 09/2016 | Unemployed | After graduating college I worked a few jobs that did not have engineering related experience while I was going through the application process and initial training for the U.S. Navy. |

MATTHEW VALLARINO (17-813-62)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/23/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
3 years, 10 months

Total Engineering
Experience
4 years

Experience under licensed
engineer
4 years

Other Experience

Disciplinary Action
None reported



EDUCATION



Associates in Science
Western Nevada College
January 2011–May 2014

Bachelors in Civil Engineering (EAC)
University of Nevada, Reno
August 2014–August 2017

REFERENCES



EXAMS



Fundamentals of Engineering (FE)
Nevada
March 2017

Principles and Practice of Engineering (PE)
Civil
Nevada
April 2018

LICENSES



Additional Licenses
None

WORK EXPERIENCE

Best Buy
Nevada (United States)
Inventory Specialist
September 2008—May 2010

Verified by
Matthew Vallarino (Self)

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



TASKS

Sales and merchandising of the store. Geeks squad home theater delivery and set up. Inventory lead, receiving truck and stocking the store



REPRESENTATIVE PROJECTS

N/A

WORK EXPERIENCE

Borders Book Store
Nevada (United States)
Cashier

October 2010—September 2011

Verified by
Matthew Vallarino (Self)

Experience Summary

Part-Time

Other: (0%)

**Experience under licensed surveyor:
None**



TASKS

This job was just a small part time job while I was saving some money to goto college. no engineering experience was gained from employment with borders book store. I was a cashier and also a customer service specialist.



REPRESENTATIVE PROJECTS

N/A

WORK EXPERIENCE

Jensen Precast
Nevada (United States)
Engineering Product Developer
June 2017—June 2021

Verified by
Michael Brett Evans
bevans@jensenprecast.com

Experience Summary
Full-Time
Engineering: 4 years
Post EAC degree: 3 years, 10 months
Experience under licensed engineer:
4 years

TASKS

My duties include reinforcing concrete of underground utility structures following ASTM, ACI and AASHTO specifications. This includes performing the structural design calculations of vaults, pull-boxes, manholes, tanks, box culvert and head walls, also reading and understanding design codes. I've been leading the effort (under the supervision of a Professional Engineer) of re-engineering standard products for Jensen to improve structural efficiency. While designing reinforced concrete members, I make appropriate assumptions of soil conditions and groundwater elevations for a conservative design. Determine the controlling loading conditions for worst case scenarios (i.e. seismic load versus traffic surcharge). Ensure that designs meet various specs including ASTM, UPC, LRFD, IAPMO, ACI etc. I review design drawings for errors based on the calculation I or others have performed (under a Professional Engineer) and project plans and specifications in order to deliver a clear and correct submittal. I also aid in leading a team in the redesigning and re-engineering of the standard products. Provide solutions and assistance for job site installation.

REPRESENTATIVE PROJECTS

Redesign and Re-engineering of Standard Products for Jensen Precast. (June 2018 – Present)

- Managed a team of engineers and drafters to solve complex challenges and meet strict deadlines.
- Performed and oversaw all calculations to improve structural efficiency.
- Coordinated with production managers to improve designs and overall construction process.
- Ensured all structures met design criteria according to ASTM, UPC/IAPMO, LRFD and ACI specifications.
- Coordinated and Oversaw the IAPMO listing process for a new tank product line for the Jensen Precast Facility in Phoenix, AZ. This included gathering all relevant documentation needed for the listing process, coordinating with production managers from the Phoenix branch to ensure all design criteria was met. Finally, traveling to Phoenix, AZ to lead a field inspection with the Regional Manager of IAPMO.

Hawaii Electrical Company Resubmittals- AASHTO 7th Edition, State of Hawaii, Electrical Pull-Boxes (December 2017 – Present)

- Worked with agency engineers to meet project requirements and specifications.
- Managed a group of drafters to ensure all design submittals and drawings were accurate and met project requirements.
- Compiled complex structural design submittals to be reviewed and sealed by structural engineer.

Sunnyvale Pretreatment Facility, Sunnyvale/CA/USA, Box Culvert and Utility Trench (September 2017- July 2020)

- Managed team to design over 1000 linear feet of box culvert.
- Coordinated with production supervisors and managers to

meet project deadlines.

- Performed all structural calculations for both the Box Culvert and Utility Trench sections. A detailed understanding of ASTM C1577 and ASTM C857/890 was required to ensure all specifications were met during the design process.
- Provided solutions for issues with project site construction, including minor cosmetic cracking, field coring concerns, and drill and epoxy rebar placement.

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.

Yes, Possession of Marijuana and a Minor Consumption, Both when I was 19. Have had no other charges ever.

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


Electrical

ERICH BEYER (14-032-30)

All work experience reviewed by two licensed professionals

DISCIPLINE: ELECTRICAL

GENERAL


 Applying To **Nevada**

Application Type **Initial - PE**

Application Date **07/07/2021**

Citizenship **United States**



SUMMARY



 Engineering Experience after EAC degree **11 years, 10 months**

Total Engineering Experience **14 years, 5 months**

Experience under licensed engineer **14 years, 5 months**

Disciplinary Action **None reported**


 

EDUCATION

 Bachelors in Electrical Engineering (EAC)
University of Nevada, Reno
August 2005–August 2009

EXAMS

 Fundamentals of Engineering (FE)
Nevada
April 2009

Principles and Practice of Engineering (PE)
Electrical & Computer
Nevada
October 2012



LICENSES

 Additional Licenses **None**

ERICH BEYER (14-032-30)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Legrand NA LLC
Nevada (United States)
Test Engineer II
January 2007—June 2021

Verified by
Dr. William Harold Avery
bnsavery@gmail.com

Experience Summary
Full-Time
Engineering: 14 years, 5 months
Post EAC degree: 11 years, 10 months
Experience under licensed engineer: 14 years, 5 months

TASKS

Initially, I worked as an electrical engineer for automated manufacturing test equipment. I designed electrical circuits for hardware interfaces between computer equipment and the device under tests. I wrote software for the test equipment to perform functional validation of the device under test. I costed, designed, debugged, and maintained an expanding array of circuits and software to support additional devices under test.

After five years of work on automated manufacturing test equipment, I accepted a new role as an electrical engineer testing and validating new designs for the research and development department. I researched and defined procedures to demonstrate new designs complied with a product specification. I designed, constructed, and implemented electrical circuits and software programs to collect data from engineering prototypes. I compiled this data into reports. In cases where a product failed to meet its specification or operate correctly, I would investigate the failure, develop a theory of failure, collected data to support the theory, and recommend corrective action to the responsible design engineer.

REPRESENTATIVE PROJECTS

I worked on a project to deploy board level test system to PCB manufacturers in Reno, Shanghai, and Seoul. The initial scope was to produce several electrical-mechanical assemblies capable of interfacing to assembled circuit boards in a bed-of-nails fixture for functional validation as a manufacturing step. The scope expanded to support additional printed circuit boards as new product designs were deployed. I worked on the project from January 2009 to October 2014. I designed circuits, selected components, drafted schematics in electrical CAD, created board layouts in electrical cad, estimated project costs, designed procedures to validate system components, wrote software to perform function test, recommended expansions and improvements to the test fixtures, installed tests systems, debugged hardware and software issues with test systems, and diagnosed product failures reported by systems.

I worked on a project to deploy calibrators to AC power meter manufacturers in Reno, Shanghai, and Seoul. The calibrators were electrical-mechanical assemblies capable of interfacing to AC power meters to calibrate the meters as a manufacturing step. I worked on this project from June of 2011 to October 2014. I designed circuits, estimated manufacturing tach times, selected components, drafted schematics in electrical CAD, created board layouts in electrical cad, estimated project costs, designed procedures to validate and maintain system components, wrote software to perform calibration, installed calibration systems, and debugged hardware and software issues with test systems.

I worked on a project to deploy a product level test system to manufacturers in Reno, Shanghai, and Seoul. The project was to produce several electrical-mechanical assemblies capable of interfacing to assembled cabinet power distribution units(CDU) for functional validation as a manufacturing step. I worked on the project from September 2012 to October 2014. I designed circuits, estimated manufacturing tach times, selected components, drafted schematics in electrical CAD, created board layouts in electrical cad, estimated project costs, designed procedures to validate and maintain system components, wrote calibration software, installed calibration systems, and debugged hardware and software issues with test systems.

I worked on a project to validate the precision of a three phase AC power meter design. I worked on This project from October 2014 to March of 2015. I selected laboratory test equipment, designed a test plan, wrote a test procedure, collected data, calculated precision, identified non-compliant data points, identified sources of error, and recommended design corrections.

I worked on a project to validate the performance and reliability of the Pro2 line of CDUs. I worked on this project from March 2015 to June 2016. I specified a scope of testing, wrote test plans, designed test harnessing, selected test equipment, executed test plans, collected data, wrote reports, identified design defects, and recommended design improvements.

I worked on a project to resolve an intermittent failure of a switched mode dc-to-dc power supply in existing products. I worked on this project from June 2016 to June 2017. I reviewed reports of field failures, researched the power supply design, characterized the power supply in a laboratory, identified a failure mode, defined a theory of failure, demonstrated the hypothesis through testing, designed changes to eliminate the failure, and retested the new design to confirm the correction.

I worked on a project to design a Bluetooth communication interface to a CDU. I worked on this project from June 2017 to June 2018. I researched circuit design solutions, costed each design, designed several hardware interface circuits between the Bluetooth radio a microcontroller, drafted schematics and board layouts in electrical cad, defined software requirements for the interface, and validated the functionality of the system. The design received approval for the Apple MFi program.

I worked on a project to migrate the operating system of the network controller in a CDU away from ThreadX. I worked on the project from June 2018 to June 2019. I researched alternative systems, estimated costs and benefits, and reported findings to a decision making board.

I developed an electrical fast transient test for CDUs. I worked on this project form June 2019 to the present. I researched the IEC's EFT testing specifications, characterized the turn-off transient of electrical loads, selected loads based on transients within IEC specification, and designed a procedure for reproducing the EFT using the loads on the outlets of a CDU.

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

Computer Science

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

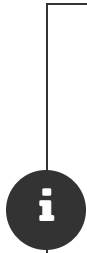
Mechanical

JEREMY NELSEN (16-306-91)

All work experience reviewed by two licensed professionals

DISCIPLINE: MECHANICAL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
07/15/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
5 years, 1 month

Total Engineering
Experience
7 years

Experience under licensed
engineer
7 years

Other Experience

Disciplinary Action
None reported



EDUCATION



Bachelors in Mechanical Engineering (EAC)
University of Nevada, Las Vegas
August 2012–May 2016

EXAMS



Fundamentals of Engineering (FE)
Nevada
January 2016

Principles and Practice of Engineering (PE)
Mechanical
Nevada
June 2021



LICENSES



Additional Licenses
None

JEREMY NELSEN (16-306-91)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Terrible Herbst
Nevada (United States)
Emissions inspector
May 2004—June 2006

Verified by
Jeremy Nelsen (Self)

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



TASKS

Perform Emissions Inspections for vehicles to ensure they were in compliance with local laws.



REPRESENTATIVE PROJECTS

-Performed Emissions inspection on 100s of vehicles in my time there.

JEREMY NELSEN (16-306-91)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Reel Sound
Nevada (United States)
Low voltage technician
June 2006—August 2008

Verified by
Jeremy Nelsen (Self)

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



TASKS

Installed Home Theaters, home intercom, cable/ethernet, security systems, and central vacuums in track homes around Las Vegas.



REPRESENTATIVE PROJECTS

I pre-wired and did final install for dozens of home in Rhodes Ranch and Tuscany housing developments.

JEREMY NELSEN (16-306-91)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Mountain West Electric
Nevada (United States)
Electrician
August 2008—January 2010

Verified by
Jeremy Nelsen (Self)

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



TASKS

I installed pre-wire and final trim for the electrical in custom homes in the Las Vegas area.



REPRESENTATIVE PROJECTS

-Wired multiple homes in Mcdonald Highlands and Southern Highlands and did final install for theater rooms and house speakers.

JEREMY NELSEN (16-306-91)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

24/7 Express
Nevada (United States)
Emissions inspector
March 2011—August 2014

Verified by
Jeremy Nelsen (Self)

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



TASKS

-Performed emissions inspections and vehicle registrations for vehicles in the Las Vegas area



REPRESENTATIVE PROJECTS

I performed dozens of emissions inspections per day at one of the busiest booths in town.

JEREMY NELSEN (16-306-91)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

American Bioengineers
Nevada (United States)
Forensic engineer
June 2014—March 2021

Verified by
Brian Keith Jones
bjones@americanbioengineers.com

Experience Summary
Full-Time
Engineering: 6 years, 9 months
Post EAC degree: 4 years, 10 months
Experience under licensed engineer:
6 years, 9 months

TASKS

I was an accident reconstruction specialist with areas of expertise in Vehicular Accidents, Vehicular Dynamics, Speed Analysis, Time/Motion Studies, Vehicle Maintenance, and Design Strength Analysis.

- Using Conservation of momentum and Dynamics to determine impact severity of a variety of motor vehicle collisions including Auto v. Auto Collisions, Auto v. Heavy Truck/Trailer Collisions, Auto v. Truck Collisions, Auto v. Motorcycle Collisions, Auto v. Pedestrian Collisions, and Vehicle Rollovers
- Scene survey/scans utilizing 3D laser scanner and drones.
- Downloading/Analyzing event data recorder(black box) reports from motor vehicle collisions.
- Providing expert witness services in depositions and trials for clients regarding accident reconstruction.

REPRESENTATIVE PROJECTS

Crash testing and data collection.

January 2018

I instrumented subject vehicles and crash dummies with accelerometers and implemented a testing protocol to complete the tests on a tight schedule and accurately collect the data.

Crash testing and data collection. Minor oblique lateral impacts involving human female test subjects and instrumented Hybrid III ATDs at angles of 45, 60, and 90 using 2005 and 2007 Toyota Camrys

March 2018

I instrumented vehicles and installed accelerometers and high-speed cameras used during testing. I armed the data collection software to be triggered with a tape switch when vehicles would come into contact. Once completed, I filtered and analyzed the data and calculated change in velocities for the instrumented subjects.

Crash testing and data collection in instrumented car-to-car rear-end impacts with human subjects using 2005 to 2007 Toyota Camrys and Corollas.

June 2018

I mounted and calibrated accelerometers and sensors used during the crash testing. I documented the crashes using a high speed camera. I mounted tape switches to the vehicles that would trigger the data collection when the vehicles came into contact.

Accident Reconstruction Analyses

June 2014-March 2021

I inspected 100s of vehicles and reconstructed 100s of motor vehicle collisions during my time with American Bioengineers utilizing the momentum-energy-restitution method. I arranged with clients the inspection of the subject vehicles and documented the physical evidence (i.e. crush characteristics, damage profile, scuff patterns) and then would perform the calculations to determine the change in velocity the vehicles experienced in the subject collision. I then would provide the findings of my analysis either in a written report or verbally to clients.

Laser scanning/mapping of roadways and evidence

June 2016- March 2021

I Piloted dozens of UAV missions utilizing Pix4D software to scan/survey roadways where motor vehicle collisions occurred. I then created scaled diagrams based on the scans from the drone missions. I scanned dozens of scenes of motor vehicle accidents with a FARO 3D laser scanner where approval for a drone was not permitted. Utilized the subject laser scans to provide scaled diagrams of accident location.

Photogrammetry analysis

June 2016- March 2021

I measured vehicle damage profiles and crush characteristics utilizing Photomodeler, a photogrammetry software, for dozens of accident reconstructions to accurately model and measure crush characteristics of vehicles that were not available for in-person inspection.

Accident Reconstruction Simulations

June 2014- March 2021

I ran hundreds of simulations utilizing the software HVE (human vehicle environment) to reconstruct motor vehicle collisions that were atypical or difficult to model. Simulations would take into account all collected physical evidence from vehicle inspections as well as utilizing the principles from the conservation of momentum to determine approach/departure angles, post and pre-impact speeds of vehicle, and change in velocity of involved vehicles to determine liability and impact severity.

Crash data retrieval collection and analysis

June 2014- March 2021

I downloaded and analyzed the data from 100s of event data recorder or "black boxes" from vehicles that were involved in motor vehicle collisions.

JEREMY NELSEN (16-306-91)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Donan Engineering
Nevada (United States)
Forensic Engineer
March 2021—June 2021

Verified by
Stephanie Broyles Adams
sadams@donan.com

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



TASKS

- I provide expert forensic analysis to our clients on an array of engineering projects.
- I provide honest and unbiased analysis and consultation on various product failures.
- Writing and submitting detailed and accurate reports on completed projects in a timely manner.
- Provide expert testimony for court cases on an as-needed basis.



REPRESENTATIVE PROJECTS

Water Heater Forensic Analysis

March 2021- Present

I have conducted nearly 20 non-destructive forensic studies on water heaters that have caused water loss in residential homes. Studies have been conducted following the Rheem protocol for inspecting a water heater. After inspection, a written report of the findings has been provided to clients.

JEREMY NELSEN (16-306-91)

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.

Yes, I was convicted of a misdemeanor DUI in 2010 in Las Vegas. I paid all fees and finished all requirements.

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

JEREMY NELSEN (16-306-91)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

| Start Date | End Date | Reason | Explanation |
|------------|----------|------------|--|
| 02/2010 | 02/2011 | Unemployed | I was unemployed for a time after the Recession of 2008 and worked odd jobs until I went back to school for engineering. |

6. Public Comment