

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



**REGULAR BOARD MEETING
May 20, 2021
Virtual Meeting**

1. Meeting Call to Order

2. Pledge of Allegiance

3. Public Comment

4. Introductions

5. Approval of
March 30, 2021
Special Board Meeting
Minutes

NEVADA STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
Minutes of the Special Board Meeting
Held virtually, Tuesday, March 30, 2021, at 4:00pm

Board members participating were Chairwoman Karen Purcell, PE; Vice Chair Michael Kidd, PLS; Brent Wright, PE/SE; Angelo Spata, PE; Thomas Matter, public member; Matthew Gingerich, PLS; Also joining were Patty Mamola, Executive Director; Chris MacKenzie, Board Legal Counsel; Susan Fischer, Board Government Affairs Liaison; Murray Blaney, Operations/Compliance and Louisa Kern, Administrative Assistant. Lynnette Russell, PE was absent.

Participating as a guest of the board was Roland Westergard, PE, Lic # 001685.

1. Meeting conducted by Chair Karen Purcell, call to order and roll call of board members to determine presence of quorum.

Ms Purcell called the meeting to order at 4:01pm.

Board members, guests and staff introduced themselves.

2. Pledge of Allegiance

3. Public comment.

There was no public comment.

4. Discussion and possible action on approval of March 11, 2021, board meeting minutes.

21-20 A motion was made by Mr Spata seconded by Mr Kidd to approve the March 11, 2021, board meeting minutes. The motion passed unanimously. Mr Gingerich abstained from the vote as he was not present at the meeting. Ms Russell was not present for the vote.

5. Consideration of initial licensure applicant requests to waive certain requirements of Nevada Revised Statutes and Nevada Administrative Code Chapter 625.

Mr Spata recommended granting the request to waive NRS 625.193 (1) (a) made by Rolando Tumaque applying for civil engineering licensure.

21-21 A motion was made by Mr Spata, seconded by Mr Wright to approve the waiver request. The motion passed unanimously. Ms Russell was not present for the vote.

6. Board approval of non-appearance applications for initial licensure. Refer to Addendum A for list of applicants.

The Board reviewed nine applications in the board packet for initial licensure and recommendations

were made.

21-22 A motion was made by Mr Gingerich, seconded by Mr Matter to approve the initial licensure applications as noted. The motion passed unanimously. Ms Russell and Mr Fyda were not present for the vote.

7. Discuss Nevada Senate Bill 155 related to State Engineer and Department of Water Resources.

Ms Mamola said this agenda item is for SB 155, a bill that removes the requirement that the head of the Division of Water Resources be the state engineer and allows that position to be held by some other qualified person, and then the state engineer title would go to a deputy of that organization. She added the item is presented so the board can deliberate and determine whether it would like to take a position of support, opposition, or neutral on this bill. Ms Mamola said, additionally, we have Mr Roland Westergard, PE, a past state engineer and former board chair, who provided public comment at the last board meeting who is available to answer any board questions.

Mr Westergard - I commented extensively at the last board meeting and I continue to feel strongly that it's necessary to maintain that requirement that the state engineer be licensed. The decisions that are made in that office that are critical for the state as it has been over the last hundred plus years that that office has been in existence. I think we just need to have a person in there that has been qualified through the procedures that the board follows, and that is of course the common terminology— education, experience and examination. As I said before a lot has happened over time but I continue to maintain that what has not changed is the necessity to have the most qualified person that you can find in that position. There has also been discussion as I understand it, that they're having trouble finding applicants that meet these qualifications and that they want to expand the field by changing the requirements in eliminating the basic one of registration as an engineer. I would submit that we can't afford to reduce the standards that exist in the interest of protecting what's obviously a valuable resource in the state of Nevada. So, with that I'd be glad to answer any questions.

Mr MacKenzie said, for those on the board that are not familiar, Mr Westergard served as the State engineer for more than a decade and was also head of the Department of Conservation Natural Resources, so he can offer a unique insight into this issue.

Mr Wright - I completely agree with Mr Westergard. I think that the concerns he raises are very valid and that it would be a mistake to put someone in that position who potentially could be overridden by their Superior and their professional opinion be disregarded or changed or watered down or something. I think it would be a mistake and so I would oppose any legislation that made it so that someone other than a licensed engineer could be the state engineer.

Mr Matter - *I don't see how you can have that person in that position without them being an engineer.*

Mr Gingerich - *I don't see a need to change the existing language in the statute. So, I'm in agreement with the board members.*

Mr Kidd - *I am in support of the opinion of my fellow board members. I would like to see the board oppose the bill and not even just take a neutral stance.*

Mr Spata - *I have a general question. Looking through the regulations, and I know this is different, for any other engineering business is the engineering business required to have an engineer of record or a PE be the manager of that organization or CEO of that organization?*

Ms Mamola - *No.*

Mr Spata - *Or do they just have to have individuals on staff to do business and operate from an engineering perspective?*

Ms Mamola - *Yes, they just have to have those individuals on staff to do that work.*

Mr Spata - *I don't disagree at all with my colleagues. I think it's important to have that person in that role and I don't disagree with that. What I am concerned with is us as regulatory board jumping in and getting involved and making that change as to how they operate their business and I don't know that I'm against a change, but I'm against us jumping in and taking a stance.*

Ms Purcell - *It sounds like Angelo your position is more to stay neutral.*

Mr Spata - *Yes.*

Mr Fyda - *I agree with Mr Spata. I do like the idea of a PE being there, but I do understand where the state is coming from. I think hydro geologists would be a good fit in terms of water resources. I think a neutral stance might be best.*

Ms Purcell - *I agree with Mr Westergard and some of my other fellow board members that this position should have a PE, just based upon some of the critical decisions, the ethical decisions that are put in front of this individual and I feel that a PE is warranted knowing they're bound by ethical standards. I would be in favor of opposing this bill.*

Ms Fisher - *The bill has already been heard, so the next step would for it to go to work session which is where they vote thumbs up or thumbs down, or they don't ever bring it up at all. It was heard on March 18th, because we didn't have a formal position, I did call in as under neutral with concerns and said we don't have a formal position on this bill yet but there have been some concerns expressed by some individual board members. What the head of BCNR, Bradley Crow said during testimony, and I will tell you after hearing some of the opposition during the hearing, he was very visibly frustrated. He said if some of the professional engineers out there who are opposed to this bill want to take a pay cut and come in here and head up this agency great, but we can't find any willing to take the job for what we pay. He was very upset. So, there wasn't a lot of support for, there was certainly more opposition than support. So, I don't know where it'll go from here and I have not worked on this bill so I haven't been talking with committee members individually about this particular bill only because we didn't have a formal position.*

Mr Wright - *I hadn't considered what Mr Spata brought up and it makes sense. I'm thinking maybe Mr Westergard or someone who knows more about the water resources engineering in this position might know the answer. You have firms that don't have to be owned by a professional engineer. But Professional Engineers are in responsible charge of all the work done by that firm. In the case of the state engineer, that person is in responsible charge of all those decisions that require professional variants of knowledge and where the non-engineer owner of an engineering firm isn't making engineering decisions, they are hiring engineers to make those decisions. In this situation, the state engineer is the one making those decisions, but they would not be the owner or CEO equivalent, so it seems like they would be alike.*

Mr Fyda - *I'll respond. Looking at the SNWA's board and most of their executive team that handles that are PEs, and I believe even their counsel has engineering training in water resources. So, I think it would be good to I guess put everyone on equal footing I guess metaphorically speaking.*

Mr Spata - *My argument is related to the board's role and stepping into business matters of an agency. I'm not sure if that is something the board should be doing.*

Ms Mamola – *The board's focus is Public Safety. And the board needs to decide if this is a public safety issue or not? As Mr Westergard puts it, is if you have someone over that state engineer that person could easily override the decision made by the engineer. It is different in a business setting as compared to government setting. Administrators in government make decisions for any number of reasons and a lot of times those decisions are made because the governor tells you he wants that decision. But in having a professional engineer in that position, they are held to a higher standard. They are held to the standard of public protection. They must be thinking about the public in every decision they make and not only is their job at stake, but their livelihood is at stake because they are regulated by us. An administrator isn't regulated. We have administrative law processes that we can bring to bear against that person. Our concern is Public Safety and that is where you need to decide is this warranted enough where the Board needs to weigh in? Are we that concerned with Public Safety that we're adamant about saying this position must be an engineer?*

Mr Westergard made the comment in our previous meeting that water resources should have been grooming from within the agency to have somebody come up through the ranks to be able to fill that position, for whatever reason that didn't happen. Now they're in this predicament. It could be anyone that could fill that position that they deemed to have the qualifications needed to be administrator of that organization. It kind of reminds me, and I am almost reluctant to say this on the record, but it reminds me of Flint Michigan a little bit. This person is in charge of Nevada's precious natural resource of water.

Ms Purcell - *In my mind it is a matter of public safety and that adds to the reason why I feel that we should oppose this bill and that that person in that position should be a licensed professional engineer.*

21-23 A motion was made by Mr Kidd, seconded by Mr Gingerich that the board submit a letter of opposition to the Senate bill. The motion passed unanimously. Ms Russell was not present for the vote.

Ms Mamola said she would work with Mr Spata, chair of the Legislative Committee, to draft a letter of opposition on behalf of the board. (ACTION Item)

Mr Westerguard - *I appreciated the board's obvious serious consideration of this critical issue. And obviously I'm pleased with the results, but I just want to thank you not only for your efforts today, but as a former member of that board and I think I said this the last time how much I personally appreciate and I think I can speak on behalf of a lot of people in Nevada how much I appreciate it and we appreciate the efforts of the board and so with that I'll just say, thank you and good luck in your future deliberations.*

8. Consider updating regulations to include language about minimum standard for submittals to a public entity.

Ms Mamola said this item was added to the agenda for deliberation, but if the board agrees, I'd suggest it be sent back to the PAL committee for further review. If you recall, I reported at the last board meeting there were several agencies that read our newsletter article earlier in March about the quality of plan submittals who indicated they were very interested in participating in the PAL committee to be part of those discussions. I think it is important to hear from all agencies and hear what their perspective is before we make any decision. Ms Mamola said following expanded conversations at the PAL committee, and a degree of consensus, the item would then go before the Legislative Committee to decide if amendments are required, and then it will be brought back to the full board. That is my recommendation. Ms Mamola added that the next PAL meeting is scheduled for May 19, 2021.

Mr Spata said he agreed with the recommendation. It is certainly worth broadening the reach of the discussion with the agencies and getting a full understanding of what support they are looking for to be able to consider all options. We need to understand if it is a process issue or a quality of engineering issue that impacts public health, safety and welfare.

Ms Mamola asked if Mr Spata would be available to participate in the next PAL meeting. He said he would.

9. Public comment.

There was no public comment.

10. Adjournment

Ms Purcell thanked board members and guests for their participation and adjourned the meeting at 4:39pm.

Respectfully, Patty Mamola
Executive Director

6. Approval of
April 7, 2021
Special Board Meeting
Minutes

NEVADA STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
Minutes of the Special Board Meeting
Held virtually, Wednesday, April 7, 2021 at 10:30am

Board members participating were Chairwoman Karen Purcell, PE; Vice Chair Michael Kidd, PLS; Angelo Spata, PE; Thomas Matter, public member; Matthew Gingerich, PLS. Lynnette Russell, PE; Robert Fyda, PE; and Brent Wright, PE/SE were excused. Also participating were Patty Mamola, Executive Director; Chris MacKenzie, Board Legal Counsel; Susan Fischer, Board Government Affairs Liaison; Murray Blaney, Operations/Compliance; and Louisa Kern, Administrative Assistant.

1. Meeting conducted by Chair Karen Purcell, call to order and roll call of board members to determine presence of quorum.

Ms Purcell called the meeting to order at 10:30am.

Ms Mamola did a roll call and determined a quorum was present.

Those participating in the meeting introduced themselves.

2. Pledge of Allegiance

3. Public comment.

Chairwoman Purcell said that before moving to public comment, she would like to read the mission statement of the board as a reminder of the board's purpose.

The purpose of the board as stated in Nevada Revised Statute 625.005 is to safeguard life, health and property and to promote the public welfare by providing for the licensure of qualified and competent professional engineers and professional land surveyors and our mission is founded on the board's purpose, the board's mission is to uphold the value of professional engineering and land surveying licensure by assessing minimum competency for initial entry into the profession and to insure on going standard of professionalism by facilitating compliance with laws regulations and code of practice and to provide understanding and progression in licensure by openly engaging with all stake holders.

There was no public comment.

4. Board approval of non-appearance applications for initial licensure. Refer to Addendum A for list of applicants.

21-24 A motion was made by Mr Matter, seconded by Mr Spata to approve the initial licensure applications with recommendations as noted. The motion passed unanimously. Ms Russell, Mr Fyda, and Mr Wright were not present for the vote.

5. Discuss Nevada Senate Bill 402 related to endorsement licensure.

Ms Mamola said SB 402 is related to endorsement licensure for active military, military spouses, veterans, and spouses of veterans. It requires us as a board to issue a license within 30 days. In addition, if one of those persons are licensed in another state and are in good standing, we would have to reduce our application fee for that group to one half of the initial application fee. The bill also eliminates any state exams for that particular group and it allows the executive director to issue licenses to that group to make sure we meet that 30 day turnaround requirement. Ms Mamola said it is presented for the board to consider taking a position on the bill.

Mr Spata said some of what is outlined in the bill we already implemented or are working on. He asked if there were aspects of the bill that the board had not already considered with regard to the efficiency of the licensure process.

Ms Mamola said the bill included provisions for eliminating state specific exams which is not something that internally had been considered. We are working on provisions for veterans and veteran spouses but hadn't yet determined what the recommended action would be. We are still in the data gathering phase.

Mr Kidd asked for input on whether not taking a position, staying neutral, would be seen negatively by legislators.

Ms Fisher said I think it's a great opportunity for us to say, we're already doing this. Along the lines of, we appreciate you are asking the boards to do this, but just so you know, we already have these procedures in place and have been expediting licensure for active military and military spouses – as the board did by holding an interim board meeting to do just that last month for an initial license applicant. Ms Fisher said she tells legislators that this board is pro-active, it is a good opportunity to be able to brag a little bit.

Mr MacKenzie said I agree that it is a good opportunity to put some shine on things, but with not having a definitive program for veterans up and running, I may caution you against self-promotion just yet. Sometimes silence is good too.

Mr Gingerich said I support the idea of what they're trying to do here, but if you uncouple the examination process for our spouses and veterans, are you really uncoupling it for everybody else as well? If it's good for them, then why wouldn't it be good for everybody else?

Ms Mamola agreed with Mr Gingerich's point. She said our philosophy is if we're going to create a process to expedite for a certain group then we should use that to expedite for everybody. So, if we waived exams for some, then we should be doing that for all. Ms Mamola added that Senator Spearman had commented at a recent meeting about occupational licensing boards that people in

the military are tried and tested, and they shouldn't have to take another exam when coming to Nevada to prove their worth to practice in the state.

Ms Fisher said that may apply to active military because they have been tested in their military service but that same doesn't apply to their spouses. Not wanting to lead the board in any way, but I don't know why we would waive exams for the spouses. Ms Fisher asked for clarification on the frequency of the state specific exams.

Ms Mamola said engineers are required to do a take home open exam that they can do at their convenience. The land surveyors are different though, it is currently a closed book exam on Nevada specific laws like mining law, water law, planning law etc, and is scheduled to suit the applicant. She added the PLS exam is proctored virtually – over webcam – so the applicant does not need to travel. They can do it at a time and location (at home if they want) of their choosing.

Ms Fisher said that process does not seem burdensome so I don't necessarily see why you would waive that unless you believe it is okay to waive. I would suggest an amendment.

Ms Mamola said it would be good to pursue getting an exemption but since we don't have all that we are doing in regulation, it is currently in policy, it would be unlikely it would be considered. She added we will need to move what we are doing to policy to regulation in the next interim session.

Ms Purcell said her opinion is to stay neutral and or silent and then see where the bill goes, since we are doing a lot of what the amendment is asking anyway.

Ms Mamola said maybe we can try to work behind the scenes with Susan or Chris to remove the exams clause.

Ms Fisher said we can have a conversation with the committee chair, and committee members and make that suggestion.

Mr Spata said we are already expediting the process and even with state specific exams we can stay within the required 30-day window.

21-25 A motion was made by Mr Spata, seconded by Mr Gingerich to to stay neutral on SB 155 other than working behind the scenes with Ms Fisher and Mr MacKenzie on a possible amendment with regard to state specific examinations. The motion passed unanimously. Ms Russell, Mr Fyda, and Mr Wright were not present for the vote.

6. Public comment

There was no public comment.

7. Adjournment

Ms Purcell thanked the board members for their participation and adjourned the meeting at 10:54am.

Respectfully,

Patty Mamola
Executive Director

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7. Approval of
April 15, 2021
Public Hearing
Minutes

NEVADA STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
Minutes of the Public Hearing Intent to Act Upon Regulations
Held virtually Thursday, April 15, 2021, at 10:00am

Board members participating were Chairwoman Karen Purcell, PE; Vice Chair Michael Kidd, PLS; Angelo Spata, PE; Thomas Matter, public member; Matthew Gingerich, PLS; Lynnette Russell, PE; Robert Fyda, PE and Brent Wright, PE/SE. Also joining were Patty Mamola, Executive Director; Chris MacKenzie, Board Legal Counsel; Susan Fischer, Board Government Affairs Liaison; Murray Blaney, Operations/Compliance and Louisa Kern, Administrative Assistant.

There were 59 members of the public also participating virtually.

1. Meeting conducted by Chair Karen Purcell, call to order and roll call of board members to determine presence of quorum.

Ms Purcell called the Public Hearing to order at 10:00am.

2. Pledge of Allegiance

3. Public comment.

Chairwoman Purcell said that before moving to public comment, she would like to read the mission statement of the board as a reminder of the board's purpose.

The purpose of the board as stated in Nevada Revised Statute 625.005 is to safeguard life, health and property and to promote the public welfare by providing for the licensure of qualified and competent professional engineers and professional land surveyors and our mission is founded on the board's purpose, the board's mission is to uphold the value of professional engineering and land surveying licensure by assessing minimum competency for initial entry into the profession and to insure on going standard of professionalism by facilitating compliance with laws regulations and code of practice and to provide understanding and progression in licensure by openly engaging with all stake holders.

There was no public comment.

4. Open hearing for LCB file number R140-20RP1 by Chair Karen Purcell.

5. Presentation, discussion, and adoption of proposed changes to Nevada Administrative Code 625 as drafted by the Nevada Legislative Council Bureau, LCB file number R140-20RP1.

Ms Purcell said item (a) relates changes to regulations related to stamps, seals and signatures on documents; and revision of original plans.

a). NAC 625.610 – Updated language replaces impression with image to make the regulation applicable to paper and electronic documents. Adds the option for licensees to validate their signature adjacent to their stamp or seal. Language updated to clarify the intent of a digital signature on electronic documents relating to the identity of the professional who is responsible for the documents, and adds provisions concerning tracking changes of originally released documents. Additional language updates clarify when original plans require consent for revision and simplifies the revision process for original documents—a firm retains ownership of a design after an engineer departs, and another engineer can take responsibility for the design and any revision.

Ms Purcell asked if there was any public comment on this item.

Ms Kern said there was no public comment via email.

Charles Tremblay, a member of the public participating virtually, said he had a question. He asked how a third party would be able to validate the identity of the licensee. The regulation mentions secure encryption methods are in place that identify the licensee. If I'm receiving an engineering plan drawing or report, how would I be able to be assured that the identity of a signer is the person who he or she claims to be?

Ms Mamola said referring to digital signatures, included in the metadata associated with a digital signature is the email address of the signer as well as other relevant distinguishable information referring to that particular person.

Mr Tremblay asked would there be any ways for a third party to be able to verify that the issuer is he who he or she claims to be?

Ms Mamola replied yes. Because the email address is in the metadata you could send an email to that person and ask them questions to verify their identity as needed.

Mr Tremblay thanked Ms Mamola for her response and had no further questions.

There was no additional public comment.

21-26 A motion was made by Mr Spata, seconded by Mr Wright to adopt the changes to NAC 625.610. The motion passed unanimously.

Ms Purcell said item (b) is related to regulation changes associated with plans, maps and specifications submitted to a public authority: content and stamps.

b). NAC 625.611 – Provides clarification for electronic submissions and an additional contact information requirement. “Maps” are added to section 2(b) for continuity and section (c) is

deleted to remove ambiguity.

Ms Purcell asked if there was any public comment on this item.

Ms Kern said there was no public comment via email.

21-27 A motion was made by Mr Fyda, seconded by Ms Russell to adopt the changes to NAC 625.611. The motion passed unanimously.

Ms Purcell said item (c) provides for regulation changes to documents prepared by a licensee: Inclusion of supplemental information and contents.

c). NAC 625.613 – Adds clarity for electronic submissions and an additional contact information requirement.

Ms Purcell asked if there was any public comment on this item.

Ms Kern said there was no public comment via email.

21-28 A motion was made by Mr Gingerich, seconded by Ms Russell to adopt the changes to NAC 625.613. The motion passed unanimously.

6. Public comment.

There was no public comment.

7. Close hearing for LCB file number R140-20RP1.

8. Adjournment

Ms Purcell thanked the board and the members of the public for their participation and adjourned the public hearing at 10:15am.

Respectfully,

Patty Mamola
Executive Director

8. Financial Statements

8.a. February 2021 Financial Statements

Nevada Board of Professional Engineers & Land Surveyors
Profit & Loss Budget Performance
February 2021

05/04/21

Accrual Basis

	Feb 21	Budget	\$ Over Budget	% of Budget	Jul '20 - Feb 21	YTD Budget	\$ Over Budget	% of Budget	Annual Budget
Ordinary Income/Expense									
Income									
4000 · REVENUE	25,649.83	23,750.00	1,899.83	108.0%	585,895.51	499,425.00	86,470.51	117.3%	830,550.00
Total Income	25,649.83	23,750.00	1,899.83	108.0%	585,895.51	499,425.00	86,470.51	117.3%	830,550.00
Gross Profit	25,649.83	23,750.00	1,899.83	108.0%	585,895.51	499,425.00	86,470.51	117.3%	830,550.00
Expense									
5100 · PAYROLL EXPENSES	37,916.55	41,421.28	-3,504.73	91.5%	332,329.49	348,435.14	-16,105.65	95.4%	517,921.14
5110 · PAYROLL TAXES	3,134.67	2,704.94	429.73	115.9%	21,911.78	21,652.20	259.58	101.2%	34,671.96
6001 · OPERATING EXPENSES	23,695.66	33,513.00	-9,817.34	70.7%	254,462.94	333,931.08	-79,468.14	76.2%	479,743.08
Total Expense	64,746.88	77,639.22	-12,892.34	83.4%	608,704.21	704,018.42	-95,314.21	86.5%	1,032,336.18
Net Ordinary Income	-39,097.05	-53,889.22	14,792.17	72.6%	-22,808.70	-204,593.42	181,784.72	11.1%	-201,786.18
Other Income/Expense									
Other Income									
4500 · Other Income	0.00				0.00	0.00	0.00	0.0%	0.00
Total Other Income	0.00				0.00	0.00	0.00	0.0%	0.00
Net Other Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00
Net Income	-39,097.05	-53,889.22	14,792.17	72.6%	-22,808.70	-204,593.42	181,784.72	11.1%	-201,786.18

Profit & Loss YTD Comparison

February 2021

	Feb 21	Jul '20 - Feb 21
Ordinary Income/Expense		
Income		
4000 · REVENUE		
4201 · Application Fees		
4202 · PE Comity Application	9,750.00	74,475.00
4203 · PLS Comity Application	875.00	3,025.00
4204 · PE Initial License Application	450.00	2,725.00
4205 · PLS Initial License Application	25.00	50.00
4206 · PE Reinstatement Application	800.00	8,000.00
4207 · PLS Reinstatement Application	0.00	200.00
4208 · EI Certification Application	1,050.00	5,600.00
Total 4201 · Application Fees	12,950.00	94,075.00
4250 · Renewals & Exam Fees		
4251 · PE/PLS Renewals	2,400.00	367,050.00
4252 · Renewal Late Fees	0.00	100.00
4253 · PE License Fees	4,050.00	39,970.00
4254 · PLS License Fees	100.00	775.00
4255 · NV Specific Exam Fees	100.00	1,600.00
Total 4250 · Renewals & Exam Fees	6,650.00	409,495.00
4300 · Other Revenue		
4301 · Replacement Certificate/Pocket	0.00	135.00
4302 · Stamp Fees	0.00	380.30
4303 · Interest Income	1,799.83	9,179.91
4304 · Discipline Pd to NV Gen Fund	0.00	5,450.00
4305 · Investigative Cost Recovery	0.00	1,476.50
4307 · Firm Registration	4,250.00	63,275.00
4308 · Business Name Request	0.00	1,250.00
4311 · Waiver/Document Fees	0.00	500.00
4312 · Online Convenience Fees	0.00	678.80
Total 4300 · Other Revenue	6,049.83	82,325.51
Total 4000 · REVENUE	25,649.83	585,895.51
Total Income	25,649.83	585,895.51
Gross Profit	25,649.83	585,895.51
Expense		
5100 · PAYROLL EXPENSES		
5102 · Employee Health Insurance	6,261.49	51,218.04
5103 · Employee IRA/SEP	0.00	10,981.71
5105 · Payroll Service Fees	114.12	1,082.08
5107 · Salaries	31,540.94	266,847.66
5108 · Board Salaries	0.00	2,200.00
Total 5100 · PAYROLL EXPENSES	37,916.55	332,329.49
5110 · PAYROLL TAXES		
5111 · FICA	1,955.53	16,068.02
5113 · Medicare	457.34	3,869.59
5114 · Modified Business Tax	627.18	1,677.20
5116 · SUINV	94.62	296.97
Total 5110 · PAYROLL TAXES	3,134.67	21,911.78

Profit & Loss YTD Comparison

February 2021

	Feb 21	Jul '20 - Feb 21
6001 · OPERATING EXPENSES		
Non State Owned Office Bldg.		
6002 · Rent	7,089.28	62,073.87
6004 · Utilities	55.84	800.22
6005 · Telephone/Internet	542.04	4,013.45
6005.5 · Janitorial	240.00	960.00
Total Non State Owned Office Bldg.	7,927.16	67,847.54
6006 · Office Supplies	109.99	6,027.56
6007 · Equipment/Furniture		
6010 · Equipment Purchases	0.00	3,539.65
6011 · Equipment Leasing	233.62	2,689.67
6012 · Software		
6012.5 · Software	994.46	3,949.41
Total 6012 · Software	994.46	3,949.41
6015 · Website Hosting	442.63	853.63
Total 6007 · Equipment/Furniture	1,670.71	11,032.36
6101 · Insurance		
6102 Workers Comp	0.00	2,412.66
6103 · General Liability	0.00	1,196.72
6104 · Office Contents	0.00	68.64
Total 6101 · Insurance	0.00	3,678.02
6201 · Postage		
6202 · Postage	0.00	9,562.20
6202.5 · E-Postage	0.00	1,245.00
Total 6201 · Postage	0.00	10,807.20
6301 · Board Meetings		
6302 · Travel - Out of State	279.96	279.96
6303 · Travel - In State	0.00	1,294.44
6304 · Board Meeting Expenses	0.00	3,492.64
Total 6301 · Board Meetings	279.96	5,067.04
6401 · Printing		
6402 · Printing General	0.00	6,733.34
Total 6401 · Printing	0.00	6,733.34
6501 · Professional Services		
6502 · Legal		
6503 · Board Meetings	2,001.00	16,822.50
6504 · Regulations/Legislation		
6504.1 · Deferred Exp-Regs/Legislation	2,213.00	8,114.00
6504.5 · Regulations/Legislation	0.00	-1,855.00
Total 6504 · Regulations/Legislation	2,213.00	6,259.00
6505 · Discipline	203.00	5,593.00
Total 6502 · Legal	4,417.00	28,674.50
6508 · Accounting Fees	0.00	13,051.00
6509 · Governemnt Liaison Services		
6509.5 · Government Liaison	3,000.00	15,328.00
Total 6509 · Governemnt Liaison Services	3,000.00	15,328.00

Nevada Board of Professional Engineers & Land Surveyors

05/05/21

Profit & Loss YTD Comparison

Accrual Basis

February 2021

	Feb 21	Jul '20 - Feb 21
6510 · Database/Website Design		
6510.1 · Deferred Exp-Website Update	0.00	1,850.00
6510.2 · Deferred Exp-Database Update	0.00	7,401.80
6510.5 · Database/Website Design	3,199.00	25,699.00
Total 6510 · Database/Website Design	3,199.00	34,950.80
6511 · Public Outreach	0.00	0.00
6514 · Contract Labor		
6514.1 · Def Exp-Contract Labor	0.00	145.20
6514.5 · Contract Labor	0.00	1,043.65
Total 6514 · Contract Labor	0.00	1,188.85
6515 · IT Support	967.00	7,736.00
Total 6501 · Professional Services	11,583.00	100,929.15
6601 · Program Services		
6604 · NCEES		
6605 · Dues	0.00	6,500.00
Total 6604 · NCEES	0.00	6,500.00
6608 · Stamp Purchases	0.00	332.88
6609 · Investigations	0.00	1,363.47
6616 · Merchant Services Fees	1,543.00	22,302.07
Total 6601 · Program Services	1,543.00	30,498.42
6700 · Other		
6702 · Discipline Pd to NV Gen Fund	0.00	5,450.00
6704 · State Administrative Fees		
6705 · Attorney General	0.00	169.80
6709 · Email - EITS	581.84	4,657.52
6710 · Leg. Counsel Bureau	0.00	1,550.00
Total 6704 · State Administrative Fees	581.84	6,377.32
Total 6700 · Other	581.84	11,827.32
6801 · Training & Conferences		
6804 · Registration	0.00	14.99
Total 6801 · Training & Conferences	0.00	14.99
Total 6001 · OPERATING EXPENSES	23,695.66	254,462.94
Total Expense	64,746.88	608,704.21
Net Ordinary Income	-39,097.05	-22,808.70
Net Income	-39,097.05	-22,808.70

Balance Sheet

As of February 28, 2021

	<u>Feb 28, 21</u>
ASSETS	
Current Assets	
Checking/Savings	
1001 · ASSETS	2,331,169.33
Total Checking/Savings	2,331,169.33
Other Current Assets	
1305 · Prepaid Expense	7,750.00
1310 · Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	12,755.00
Total Current Assets	2,343,924.33
TOTAL ASSETS	<u>2,343,924 .33</u>
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 · Accounts Payable	701.84
Total Accounts Payable	701.84
Other Current Liabilities	
2001 · PAYROLL LIABILITIES	32,895.43
4100 · Deferred Revenue	783,921.69
Total Other Current Liabilities	816,817.12
Total Current Liabilities	817,518.96
Total Liabilities	817,518.96
Equity	
3510 · Website Phase 2	30,000.00
3520 · Data System Upgrade	175,000.00
3530 · Electronic/Digital Pathway	175,000.00
3900 · Retained Earnings	1,169,214.07
Net Income	-22,808.70
Total Equity	1,526,405.37
TOTAL LIABILITIES & EQUITY	<u>2,343,924 .33</u>

Balance Sheet Detail

As of February 28, 2021

	Feb 28, 21
ASSETS	
Current Assets	
Checking/Savings	
1001 · ASSETS	
1051 · First Indep. Bank - Operating	130,904.41
1052 · First Indep. Bank - Payroll	15,436.64
1053 · First Indep. Bank - Petty Cash	2,537.94
1054 · First Indep. Bank - MMA	614,045.38
1055 · First Indep. Bank - 24mo CD	529,154.59
1056 · First Indep. Bank - 18mo CD	263,543.44
1057 · First Indep. Bank - 12mo CD	261,908.94
1058 · First Indep. Bank - 24mo FlexCD	513,637.99
Total 1001 · ASSETS	2,331,169.33
Total Checking/Savings	2,331,169.33
Other Current Assets	
1305 · Prepaid Expense	7,750.00
1310 · Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	12,755.00
Total Current Assets	2,343,924.33
TOTAL ASSETS	2,343,924 .33
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 · Accounts Payable	701.84
Total Accounts Payable	701.84
Other Current Liabilities	
2001 · PAYROLL LIABILITIES	
2002 · Accrued Benefits	23,223.41
2008 · Health Care W/H	
2010 · Employee	9,274.76
Total 2008 · Health Care W/H	9,274.76
2017 · Modified Business Tax	396.87
2019 · SUINV	0.39
Total 2001 · PAYROLL LIABILITIES	32,895.43
4100 · Deferred Revenue	783,921.69
Total Other Current Liabilities	816,817.12
Total Current Liabilities	817,518.96
Total Liabilities	817,518.96
Equity	
3510 · Website Phase 2	30,000.00
3520 · Data System Upgrade	175,000.00
3530 · Electronic/Digital Pathway	175,000.00
3900 · Retained Earnings	1,169,214.07
Net Income	-22,808.70
Total Equity	1,526,405.37
TOTAL LIABILITIES & EQUITY	2,343,924 .33

8.b. March 2021 Financial Statements

Nevada Board of Professional Engineers & Land Surveyors
Profit & Loss Budget Performance
March 2021

05/04/21

Accrual Basis

	Mar 21	Budget	\$ Over Budget	% of Budget	Jul '20 - Mar 21	YTD Budget	\$ Over Budget	% of Budget	Annual Budget
Ordinary Income/Expense									
Income									
4000 · REVENUE	56,128.45	23,325.00	32,803.45	240.6%	642,023.96	522,750.00	119,273.96	122.8%	830,550.00
Total Income	56,128.45	23,325.00	32,803.45	240.6%	642,023.96	522,750.00	119,273.96	122.8%	830,550.00
Gross Profit	56,128.45	23,325.00	32,803.45	240.6%	642,023.96	522,750.00	119,273.96	122.8%	830,550.00
Expense									
5100 · PAYROLL EXPENSES	38,177.25	41,434.00	-3,256.75	92.1%	370,506.74	389,869.14	-19,362.40	95.0%	517,921.14
5110 · PAYROLL TAXES	2,547.31	2,704.94	-157.63	94.2%	24,459.09	24,357.14	101.95	100.4%	34,671.96
6001 · OPERATING EXPENSES	23,618.43	36,393.00	-12,774.57	64.9%	278,081.37	370,324.08	-92,242.71	75.1%	479,743.08
Total Expense	64,342.99	80,531.94	-16,188.95	79.9%	673,047.20	784,550.36	-111,503.16	85.8%	1,032,336.18
Net Ordinary Income	-8,214.54	-57,206.94	48,992.40	14.4%	-31,023.24	-261,800.36	230,777.12	11.8%	-201,786.18
Other Income/Expense									
Other Income									
4500 · Other Income	0.00				0.00	0.00	0.00	0.0%	0.00
Total Other Income	0.00				0.00	0.00	0.00	0.0%	0.00
Net Other Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00
Net Income	-8,214.54	-57,206.94	48,992.40	14.4%	-31,023.24	-261,800.36	230,777.12	11.8%	-201,786.18

Profit & Loss YTD Comparison

March 2021

	Mar 21	Jul '20 - Mar 21
Ordinary Income/Expense		
Income		
4000 · REVENUE		
4201 · Application Fees		
4202 · PE Comity Application	13,000.00	87,475.00
4203 · PLS Comity Application	375.00	3,400.00
4204 · PE Initial License Application	500.00	3,225.00
4205 · PLS Initial License Application	25.00	75.00
4206 · PE Reinstatement Application	1,600.00	9,600.00
4207 · PLS Reinstatement Application	0.00	200.00
4208 · EI Certification Application	1,400.00	7,000.00
Total 4201 · Application Fees	16,900.00	110,975.00
4250 · Renewals & Exam Fees		
4251 · PE/PLS Renewals	25,175.00	392,225.00
4252 · Renewal Late Fees	0.00	100.00
4253 · PE License Fees	8,425.00	48,395.00
4254 · PLS License Fees	75.00	850.00
4255 · NV Specific Exam Fees	400.00	2,000.00
Total 4250 · Renewals & Exam Fees	34,075.00	443,570.00
4300 · Other Revenue		
4301 · Replacement Certificate/Pocket	85.00	220.00
4302 · Stamp Fees	0.00	380.30
4303 · Interest Income	668.45	9,848.36
4304 · Discipline Pd to NV Gen Fund	0.00	5,450.00
4305 · Investigative Cost Recovery	0.00	1,476.50
4307 · Firm Registration	4,350.00	67,625.00
4308 · Business Name Request	0.00	1,250.00
4311 · Waiver/Document Fees	50.00	550.00
4312 · Online Convenience Fees	0.00	678.80
Total 4300 · Other Revenue	5,153.45	87,478.96
Total 4000 · REVENUE	56,128.45	642,023.96
Total Income	56,128.45	642,023.96
Gross Profit	56,128.45	642,023.96
Expense		
5100 · PAYROLL EXPENSES		
5102 · Employee Health Insurance	6,261.49	57,479.53
5103 · Employee IRA/SEP	0.00	10,981.71
5105 · Payroll Service Fees	114.12	1,196.20
5107 · Salaries	31,351.64	298,199.30
5108 · Board Salaries	450.00	2,650.00
Total 5100 · PAYROLL EXPENSES	38,177.25	370,506.74
5110 · PAYROLL TAXES		
5111 · FICA	1,943.79	18,011.81
5113 · Medicare	454.59	4,324.18
5114 · Modified Business Tax	54.87	1,732.07
5116 · SUINV	94.06	391.03
Total 5110 · PAYROLL TAXES	2,547.31	24,459.09

Profit & Loss YTD Comparison

March 2021

	Mar 21	Jul '20 - Mar 21
6001 · OPERATING EXPENSES		
Non State Owned Office Bldg.		
6002 · Rent	7,090.49	69,164.36
6004 · Utilities	63.42	863.64
6005 · Telephone/Internet	558.97	4,572.42
6005.5 · Janitorial	0.00	960.00
Total Non State Owned Office Bldg.	7,712.88	75,560.42
6006 · Office Supplies	562.00	6,589.56
6007 · Equipment/Furniture		
6010 · Equipment Purchases	0.00	3,539.65
6011 · Equipment Leasing	225.68	2,915.35
6012 · Software		
6012.5 · Software	1,021.35	4,970.76
Total 6012 · Software	1,021.35	4,970.76
6015 · Website Hosting	0.00	853.63
Total 6007 · Equipment/Furniture	1,247.03	12,279.39
6101 · Insurance		
6102 Workers Comp	0.00	2,412.66
6103 · General Liability	0.00	1,196.72
6104 · Office Contents	0.00	68.64
Total 6101 · Insurance	0.00	3,678.02
6201 · Postage		
6202 · Postage	284.16	9,846.36
6202.5 · E-Postage	420.00	1,665.00
Total 6201 · Postage	704.16	11,511.36
6301 · Board Meetings		
6302 · Travel - Out of State	0.00	279.96
6303 · Travel - In State	0.00	1,294.44
6304 · Board Meeting Expenses	0.00	3,492.64
Total 6301 · Board Meetings	0.00	5,067.04
6401 · Printing		
6402 · Printing General	0.00	6,733.34
Total 6401 · Printing	0.00	6,733.34
6501 · Professional Services		
6502 · Legal		
6503 · Board Meetings	0.00	16,822.50
6504 · Regulations/Legislation		
6504.1 · Deferred Exp-Regs/Legislation	1,599.50	9,713.50
6504.5 · Regulations/Legislation	0.00	-1,855.00
Total 6504 · Regulations/Legislation	1,599.50	7,858.50
6505 · Discipline	0.00	5,593.00
Total 6502 · Legal	1,599.50	30,274.00
6508 · Accounting Fees	0.00	13,051.00

Nevada Board of Professional Engineers & Land Surveyors

05/05/21

Profit & Loss YTD Comparison

Accrual Basis

March 2021

	Mar 21	Jul '20 - Mar 21
6509 · Governemnt Liaison Services		
6509.1 · Def Exp-Government Liaison	3,000.00	3,000.00
6509.5 · Government Liaison	0.00	15,328.00
Total 6509 · Governemnt Liaison Services	3,000.00	18,328.00
6510 · Database/Website Design		
6510.1 · Deferred Exp-Website Update	0.00	1,850.00
6510.2 · Deferred Exp-Database Update	0.00	7,401.80
6510.5 · Database/Website Design	4,630.00	30,329.00
Total 6510 · Database/Website Design	4,630.00	39,580.80
6511 · Public Outreach	0.00	0.00
6514 · Contract Labor		
6514.1 · Def Exp-Contract Labor	0.00	145.20
6514.5 · Contract Labor	0.00	1,043.65
Total 6514 · Contract Labor	0.00	1,188.85
6515 · IT Support	967.00	8,703.00
Total 6501 · Professional Services	10,196.50	111,125.65
6601 · Program Services		
6604 · NCEES		
6605 · Dues	0.00	6,500.00
Total 6604 · NCEES	0.00	6,500.00
6608 · Stamp Purchases	0.00	332.88
6609 · Investigations	1,000.00	2,363.47
6616 · Merchant Services Fees	911.02	23,213.09
Total 6601 · Program Services	1,911.02	32,409.44
6700 · Other		
6702 · Discipline Pd to NV Gen Fund	0.00	5,450.00
6704 · State Administrative Fees		
6705 · Attorney General	0.00	169.80
6709 · Email - EITS	581.84	5,239.36
6710 · Leg. Counsel Bureau	0.00	1,550.00
Total 6704 · State Administrative Fees	581.84	6,959.16
6720 · Miscellaneous	600.00	600.00
Total 6700 · Other	1,181.84	13,009.16
6801 · Training & Conferences		
6804 · Registration	103.00	117.99
Total 6801 · Training & Conferences	103.00	117.99
Total 6001 · OPERATING EXPENSES	23,618.43	278,081.37
Total Expense	64,342.99	673,047.20
Net Ordinary Income	-8,214.54	-31,023.24
Net Income	-8,214.54	-31,023.24

Nevada Board of Professional Engineers & Land Surveyors

05/04/21

Balance Sheet

Accrual Basis

As of March 31, 2021

	<u>Mar 31, 21</u>
ASSETS	
Current Assets	
Checking/Savings	
1001 · ASSETS	2,323,297.11
Total Checking/Savings	2,323,297.11
Other Current Assets	
1305 · Prepaid Expense	7,750.00
1310 · Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	12,755.00
Total Current Assets	2,336,052.11
TOTAL ASSETS	<u>2,336,052 .11</u>
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Other Current Liabilities	
2001 · PAYROLL LIABILITIES	33,939.59
4100 · Deferred Revenue	783,921.69
Total Other Current Liabilities	817,861.28
Total Current Liabilities	817,861.28
Total Liabilities	817,861.28
Equity	
3510 · Website Phase 2	30,000.00
3520 · Data System Upgrade	175,000.00
3530 · Electronic/Digital Pathway	175,000.00
3900 · Retained Earnings	1,169,214.07
Net Income	-31,023.24
Total Equity	1,518,190.83
TOTAL LIABILITIES & EQUITY	<u>2,336,052 .11</u>

Balance Sheet Detail

As of March 31, 2021

	<u>Mar 31, 21</u>
ASSETS	
Current Assets	
Checking/Savings	
1001 · ASSETS	
1051 · First Indep. Bank - Operating	155,277.78
1052 · First Indep. Bank - Payroll	32,522.60
1053 · First Indep. Bank - Petty Cash	2,537.94
1054 · First Indep. Bank - MMA	564,094.65
1055 · First Indep. Bank - 24mo CD	529,296.66
1056 · First Indep. Bank - 18mo CD	263,634.42
1057 · First Indep. Bank - 12mo CD	261,959.17
1058 · First Indep. Bank - 24mo FlexCD	513,973.89
Total 1001 · ASSETS	<u>2,323,297.11</u>
Total Checking/Savings	2,323,297.11
Other Current Assets	
1305 · Prepaid Expense	7,750.00
1310 · Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	<u>12,755.00</u>
Total Current Assets	<u>2,336,052.11</u>
TOTAL ASSETS	<u>2,336,052 .11</u>
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Other Current Liabilities	
2001 · PAYROLL LIABILITIES	
2002 · Accrued Benefits	23,223.41
2008 · Health Care W/H	
2010 · Employee	<u>10,318.92</u>
Total 2008 · Health Care W/H	10,318.92
2017 · Modified Business Tax	396.87
2019 · SUINV	<u>0.39</u>
Total 2001 · PAYROLL LIABILITIES	33,939.59
4100 · Deferred Revenue	<u>783,921.69</u>
Total Other Current Liabilities	817,861.28
Total Current Liabilities	<u>817,861.28</u>
Total Liabilities	817,861.28
Equity	
3510 · Website Phase 2	30,000.00
3520 · Data System Upgrade	175,000.00
3530 · Electronic/Digital Pathway	175,000.00
3900 · Retained Earnings	1,169,214.07
Net Income	<u>-31,023.24</u>
Total Equity	<u>1,518,190.83</u>
TOTAL LIABILITIES & EQUITY	<u>2,336,052 .11</u>

8.c. April 2021

Financial Statements

Nevada Board of Professional Engineers & Land Surveyors
Profit & Loss Budget Performance
 April 2021

05/04/21

Accrual Basis

	<u>Apr 21</u>	<u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>	<u>Jul '20 - Apr 21</u>	<u>YTD Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>	<u>Annual Budget</u>
Ordinary Income/Expense									
Income									
4000 · REVENUE	87,073.18	32,450.00	54,623.18	268.3%	729,097.14	555,200.00	173,897.14	131.3%	830,550.00
Total Income	<u>87,073.18</u>	<u>32,450.00</u>	<u>54,623.18</u>	<u>268.3%</u>	<u>729,097.14</u>	<u>555,200.00</u>	<u>173,897.14</u>	<u>131.3%</u>	<u>830,550.00</u>
Gross Profit	<u>87,073.18</u>	<u>32,450.00</u>	<u>54,623.18</u>	<u>268.3%</u>	<u>729,097.14</u>	<u>555,200.00</u>	<u>173,897.14</u>	<u>131.3%</u>	<u>830,550.00</u>
Expense									
5100 · PAYROLL EXPENSES	42,439.47	45,184.00	-2,744.53	93.9%	412,946.21	435,053.14	-22,106.93	94.9%	517,921.14
5110 · PAYROLL TAXES	2,858.57	2,704.94	153.63	105.7%	27,317.66	27,062.08	255.58	100.9%	34,671.96
6001 · OPERATING EXPENSES	26,906.32	35,413.00	-8,506.68	76.0%	304,987.69	405,737.08	-100,749.39	75.2%	479,743.08
Total Expense	<u>72,204.36</u>	<u>83,301.94</u>	<u>-11,097.58</u>	<u>86.7%</u>	<u>745,251.56</u>	<u>867,852.30</u>	<u>-122,600.74</u>	<u>85.9%</u>	<u>1,032,336.18</u>
Net Ordinary Income	<u>14,868.82</u>	<u>-50,851.94</u>	<u>65,720.76</u>	<u>-29.2%</u>	<u>-16,154.42</u>	<u>-312,652.30</u>	<u>296,497.88</u>	<u>5.2%</u>	<u>-201,786.18</u>
Other Income/Expense									
Other Income									
4500 · Other Income	0.00				0.00	0.00	0.00	0.0%	0.00
Total Other Income	<u>0.00</u>				<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.0%</u>	<u>0.00</u>
Net Other Income	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.0%</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.0%</u>	<u>0.00</u>
Net Income	<u>14,868.82</u>	<u>-50,851.94</u>	<u>65,720.76</u>	<u>-29.2%</u>	<u>-16,154.42</u>	<u>-312,652.30</u>	<u>296,497.88</u>	<u>5.2%</u>	<u>-201,786.18</u>

Profit & Loss YTD Comparison

April 2021

	Apr 21	Jul '20 - Apr 21
Ordinary Income/Expense		
Income		
4000 · REVENUE		
4201 · Application Fees		
4202 · PE Comity Application	12,375.00	99,850.00
4203 · PLS Comity Application	375.00	3,775.00
4204 · PE Initial License Application	500.00	3,725.00
4205 · PLS Initial License Application	0.00	75.00
4206 · PE Reinstatement Application	1,200.00	10,800.00
4207 · PLS Reinstatement Application	0.00	200.00
4208 · EI Certification Application	1,200.00	8,200.00
Total 4201 · Application Fees	15,650.00	126,625.00
4250 · Renewals & Exam Fees		
4251 · PE/PLS Renewals	58,650.00	450,875.00
4252 · Renewal Late Fees	100.00	200.00
4253 · PE License Fees	8,550.00	56,945.00
4254 · PLS License Fees	225.00	1,075.00
4255 · NV Specific Exam Fees	100.00	2,100.00
Total 4250 · Renewals & Exam Fees	67,625.00	511,195.00
4300 · Other Revenue		
4301 · Replacement Certificate/Pocket	15.00	235.00
4302 · Stamp Fees	0.00	380.30
4303 · Interest Income	683.18	10,531.54
4304 · Discipline Pd to NV Gen Fund	0.00	5,450.00
4305 · Investigative Cost Recovery	0.00	1,476.50
4307 · Firm Registration	3,000.00	70,625.00
4308 · Business Name Request	0.00	1,250.00
4311 · Waiver/Document Fees	100.00	650.00
4312 · Online Convenience Fees	0.00	678.80
Total 4300 · Other Revenue	3,798.18	91,277.14
Total 4000 · REVENUE	87,073.18	729,097.14
Total Income	87,073.18	729,097.14
Gross Profit	87,073.18	729,097.14
Expense		
5100 · PAYROLL EXPENSES		
5102 · Employee Health Insurance	6,261.49	63,741.02
5103 · Employee IRA/SEP	4,712.22	15,693.93
5105 · Payroll Service Fees	114.12	1,310.32
5107 · Salaries	31,351.64	329,550.94
5108 · Board Salaries	0.00	2,650.00
Total 5100 · PAYROLL EXPENSES	42,439.47	412,946.21
5110 · PAYROLL TAXES		
5111 · FICA	1,943.82	19,955.63
5113 · Medicare	454.61	4,778.79
5114 · Modified Business Tax	395.11	2,127.18
5116 · SUINV	65.03	456.00
Total 5110 · PAYROLL TAXES	2,858.57	27,317.66

Profit & Loss YTD Comparison

April 2021

	Apr 21	Jul '20 - Apr 21
6001 · OPERATING EXPENSES		
Non State Owned Office Bldg.		
6002 · Rent	7,090.49	76,254.85
6004 · Utilities	182.44	1,046.08
6005 · Telephone/Internet	556.68	5,129.10
6005.5 · Janitorial	120.00	1,080.00
Total Non State Owned Office Bldg.	7,949.61	83,510.03
6006 · Office Supplies	290.53	6,880.09
6007 · Equipment/Furniture		
6010 · Equipment Purchases	0.00	3,539.65
6011 · Equipment Leasing	238.32	3,153.67
6012 · Software		
6012.5 · Software	309.07	5,279.83
Total 6012 · Software	309.07	5,279.83
6015 · Website Hosting	0.00	853.63
Total 6007 · Equipment/Furniture	547.39	12,826.78
6101 · Insurance		
6102 Workers Comp	0.00	2,412.66
6103 · General Liability	0.00	1,196.72
6104 · Office Contents	0.00	68.64
Total 6101 · Insurance	0.00	3,678.02
6201 · Postage		
6202 · Postage	1,146.53	10,992.89
6202.5 · E-Postage	210.00	1,875.00
Total 6201 · Postage	1,356.53	12,867.89
6301 · Board Meetings		
6302 · Travel - Out of State	0.00	279.96
6303 · Travel - In State	0.00	1,294.44
6304 · Board Meeting Expenses	64.09	3,556.73
Total 6301 · Board Meetings	64.09	5,131.13
6401 · Printing		
6402 · Printing General	562.38	7,295.72
Total 6401 · Printing	562.38	7,295.72
6501 · Professional Services		
6502 · Legal		
6503 · Board Meetings	2,809.50	19,632.00
6504 · Regulations/Legislation		
6504.1 · Deferred Exp-Regs/Legislation	1,073.00	10,786.50
6504.5 · Regulations/Legislation	0.00	-1,855.00
Total 6504 · Regulations/Legislation	1,073.00	8,931.50
6505 · Discipline	2,460.00	8,053.00
Total 6502 · Legal	6,342.50	36,616.50
6508 · Accounting Fees	51.00	13,102.00

Nevada Board of Professional Engineers & Land Surveyors

05/05/21

Profit & Loss YTD Comparison

Accrual Basis

April 2021

	Apr 21	Jul '20 - Apr 21
6509 · Governemnt Liaison Services		
6509.1 · Def Exp-Government Liaison	3,000.00	6,000.00
6509.5 · Government Liaison	0.00	15,328.00
Total 6509 · Governemnt Liaison Services	3,000.00	21,328.00
6510 · Database/Website Design		
6510.1 · Deferred Exp-Website Update	0.00	1,850.00
6510.2 · Deferred Exp-Database Update	0.00	7,401.80
6510.5 · Database/Website Design	3,467.50	33,796.50
Total 6510 · Database/Website Design	3,467.50	43,048.30
6511 · Public Outreach	0.00	0.00
6514 · Contract Labor		
6514.1 · Def Exp-Contract Labor	0.00	145.20
6514.5 · Contract Labor	0.00	1,043.65
Total 6514 · Contract Labor	0.00	1,188.85
6515 · IT Support	967.00	9,670.00
Total 6501 · Professional Services	13,828.00	124,953.65
6601 · Program Services		
6604 · NCEES		
6605 · Dues	0.00	6,500.00
Total 6604 · NCEES	0.00	6,500.00
6608 · Stamp Purchases	0.00	332.88
6609 · Investigations	0.00	2,363.47
6616 · Merchant Services Fees	1,725.95	24,939.04
Total 6601 · Program Services	1,725.95	34,135.39
6700 · Other		
6702 · Discipline Pd to NV Gen Fund	0.00	5,450.00
6704 · State Administrative Fees		
6705 · Attorney General	0.00	169.80
6709 · Email - EITS	581.84	5,821.20
6710 · Leg. Counsel Bureau	0.00	1,550.00
Total 6704 · State Administrative Fees	581.84	7,541.00
6720 · Miscellaneous	0.00	600.00
Total 6700 · Other	581.84	13,591.00
6801 · Training & Conferences		
6804 · Registration	0.00	117.99
Total 6801 · Training & Conferences	0.00	117.99
Total 6001 · OPERATING EXPENSES	26,906.32	304,987.69
Total Expense	72,204.36	745,251.56
Net Ordinary Income	14,868.82	-16,154.42
Net Income	14,868.82	-16,154.42

Balance Sheet

As of April 30, 2021

	<u>Apr 30, 21</u>
ASSETS	
Current Assets	
Checking/Savings	
1001 · ASSETS	2,339,984.88
Total Checking/Savings	2,339,984.88
Other Current Assets	
1305 · Prepaid Expense	7,750.00
1310 · Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	12,755.00
Total Current Assets	2,352,739.88
TOTAL ASSETS	<u>2,352,739 .88</u>
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 · Accounts Payable	774.79
Total Accounts Payable	774.79
Other Current Liabilities	
2001 · PAYROLL LIABILITIES	34,983.75
4100 · Deferred Revenue	783,921.69
Total Other Current Liabilities	818,905.44
Total Current Liabilities	819,680.23
Total Liabilities	819,680.23
Equity	
3510 · Website Phase 2	30,000.00
3520 · Data System Upgrade	175,000.00
3530 · Electronic/Digital Pathway	175,000.00
3900 · Retained Earnings	1,169,214.07
Net Income	-16,154.42
Total Equity	1,533,059.65
TOTAL LIABILITIES & EQUITY	<u>2,352,739 .88</u>

Balance Sheet Detail

As of April 30, 2021

	Apr 30, 21
ASSETS	
Current Assets	
Checking/Savings	
1001 · ASSETS	
1051 · First Indep. Bank - Operating	204,218.43
1052 · First Indep. Bank - Payroll	99,586.54
1053 · First Indep. Bank - Petty Cash	2,537.94
1054 · First Indep. Bank - MMA	464,138.82
1055 · First Indep. Bank - 24mo CD	529,454.00
1056 · First Indep. Bank - 18mo CD	263,735.18
1057 · First Indep. Bank - 12mo CD	262,014.79
1058 · First Indep. Bank - 24mo FlexCD	514,299.18
Total 1001 · ASSETS	2,339,984.88
Total Checking/Savings	2,339,984.88
Other Current Assets	
1305 · Prepaid Expense	7,750.00
1310 · Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	12,755.00
Total Current Assets	2,352,739.88
TOTAL ASSETS	2,352,739 .88
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 · Accounts Payable	774.79
Total Accounts Payable	774.79
Other Current Liabilities	
2001 · PAYROLL LIABILITIES	
2002 · Accrued Benefits	23,223.41
2008 · Health Care W/H	
2010 · Employee	11,363.08
Total 2008 · Health Care W/H	11,363.08
2017 · Modified Business Tax	396.87
2019 · SUINV	0.39
Total 2001 · PAYROLL LIABILITIES	34,983.75
4100 · Deferred Revenue	783,921.69
Total Other Current Liabilities	818,905.44
Total Current Liabilities	819,680.23
Total Liabilities	819,680.23
Equity	
3510 · Website Phase 2	30,000.00
3520 · Data System Upgrade	175,000.00
3530 · Electronic/Digital Pathway	175,000.00
3900 · Retained Earnings	1,169,214.07
Net Income	-16,154.42
Total Equity	1,533,059.65
TOTAL LIABILITIES & EQUITY	2,352,739 .88

9. Compliance Officer Report

9.a. Compliance Report

9. a. Compliance Investigations

Currently there are eight (8) cases to report on:

1. 20200001 – Failure to act as a faithful agent and incompetence in engineering
Investigation complete
2. 20200002 – Incompetency in surveying
Investigation complete
3. 20200004 – Failure to act as a faithful agent
Investigation complete
4. 20200005 – Allegation of misconduct
Investigation complete
5. 20210001 – Failure to act as faithful agent
Investigation complete
6. 20210002 – Plagiarism and failure to act as faithful agent
Investigation complete
7. 20210004 – Incompetency/negligence in surveying
Investigation complete
8. 20210006 – Reciprocal Action: Misconduct and unlicensed practice of surveying
In the investigative stage

1. 20200001 – Failure to act as a faithful agent and incompetence in engineering

Summary:

A number of allegations have been made against an engineer by a residential designer that involve incompetency in structural engineering, failure to follow contractual lines of communication, and slander.

Status:

Recommendation by board liaison for the complaint to be dismissed.

2. 20200002 – Failure to act as a faithful agent Incompetency in surveying

Summary:

Allegations have been made by a public entity against a land surveyor for ongoing incomplete map submittals and poor-quality work product.

Status:

Following board liaison review the case is now with board counsel.

3. 20200004 – Failure to act as a faithful agent

Summary:

Client alleges an engineer has been non-responsive over a prolonged period of time regarding truss review and approval resulting in significant project delays.

Status:

Recommendation by board liaison for the complaint to be dismissed.

4. 20200005 – Allegation of misconduct

Summary:

Contractor alleges construction manager licensee altered document dates and provided misleading information related to project specifications.

Status:

Recommendation by board liaison for the complaint to be dismissed.

5. 20210001 – Failure to act as faithful agent

Summary:

Client alleges a surveyor has been paid and has not submitted a record of survey per contract. Client also alleges surveyor has been nonresponsive in attempts to resolve the record of survey.

Status:

Following board liaison review the case is now with board counsel.

6. 20210002 – Plagiarism and failure to act as faithful agent

Summary:

It is alleged a PE has been representing copied documents as his own.

Status:

Following board liaison review the case is now with board counsel.

7. 20210004 – Incompetency/negligence in surveying

Summary:

Alleged a land surveyor produced an inaccurate survey resulting in a building being partially constructed within a utility easement.

Status:

The case is out for board liaison review.

8. 20210006 – Reciprocal Action: Misconduct and unlicensed practice of surveying

Summary:

Board staff were notified by the California board of action taken against a PE who is also licensed in Nevada. In the stipulated settlement with California board, the PE agreed to violations involving deceit, fraud, misconduct, and unlicensed practice.

Status:

The case is out for board liaison review.

9.b. Probation Reports

9. b. Probation reports

Probation Summary:

Name	Case #	Status/Action	Date Ending
Richard Warren	20180020	Good Standing	September 28, 2021
Dooley Riva	20190001	Good Standing	October 10, 2029
John Skwiot	20190007	Good Standing	February 1, 2023
Ralph Heninger	20190010	Good Standing	September 1, 2022
Lazell Preator	20190008 & 20200003	Good Standing	February 1, 2024

Payment Summary:

Name	Case #	Paid	Remaining	Final Due Date
Dooley Riva	20190001	\$8,950.00	\$15,800.00	September 12, 2024
Lazell Preator	20190008 & 20200003	\$0.00	\$9,769.50	July 22, 2021

Richard Warren, PE 017389

Case Number: 20180020

Violation of NRS 625.410

A complaint was submitted against Mr Warren by the owner of custom home building company, alleging Mr Warren was responsible for flaws in the design of a residence resulting in structural deficiencies and that Mr Warren failed to cooperate to resolve the situation in a timely manner.

The custom home builder entered into a contract with Mr Warren to provide structural engineering and drafting services for the design of a custom home. Construction of the home was completed September 2015. After moving into the residence in October 2015, the homeowners immediately experienced cracks in the floors and walls.

Another engineering firm was retained to review Mr Warren's calculations and drawings. The firm identified a structural deficiency, wherein the roof live and dead loads had not been called out at a girder truss support below a bearing wall. In addition, it was found that the girder truss was placed six inches away from the bearing wall where it should have been located below the main floor and adjacent to the great room fireplace.

NRS 625.410 states that the Board may take disciplinary action against a licensee for any gross negligence, incompetency or misconduct in the practice of professional engineering as a professional engineer. Here, Mr Warren acknowledges that he demonstrated incompetency by positioning the girder truss support in question six inches from where it should have been located, as well as failing to call out the line loads in the plans.

NRS 625.410(5) authorizes the State Board to take disciplinary action against a licensee for a violation of any provision of NRS Chapter 625 or NAC Chapter 625. Further, pursuant to NAC 625.640, this matter may be resolved without a formal hearing by Stipulated Agreement.

Mr Warren and the State Board hereby stipulate to the following terms for the above referenced violation(s):

1. Mr Warren shall submit to Board staff a complete list and description of his projects from the time period of January 1, 2011 through December 31, 2015, that involved structural engineering undertaken by Mr Warren, and Board staff shall select three (3) to five (5) of those projects to be subjected to independent third-party peer review to evaluate Mr Warren's structural competency as a civil engineer. The third-party engineer shall be selected by the Board staff, and the services thereof shall be paid for by Mr Warren upon presentment of

invoice therefor. The third-party engineer shall have no conflict of interest relating to Mr Warren, this company, the custom home contractor, or the homeowners.

2. While licensed professional engineers may provide limited structural engineering services without being a licensed structural engineer (NAC 625.260), Mr Warren shall be suspended from providing any structural engineering services for two (2) years immediately following acceptance of this Agreement by the State Board, but said suspension shall be stayed pending the independent third-party peer review required hereunder. Should the independent third-party peer review determine that Mr Warren is competent to provide the limited structural engineering services allowed by a licensed civil engineer, the suspension shall remain stayed for the remainder of the two (2) year time period, absent additional complaint(s) against Mr Warren.

3. Mr Warren's license shall be suspended for two (2) years immediately following acceptance of this Agreement by the State Board, pursuant to NRS 625.410 and NRS 625.460, but with the suspension stayed and probation imposed for the duration of that time period.

4. The stay of Mr Warren's license suspension may be lifted by the State Board upon notice and the opportunity for Mr Warren be heard should Mr Warren fail to abide by the terms hereof.

5. Mr Warren's successful completion of probation is expressly conditioned upon his full compliance with the following conditions of probation:

a. Mr Warren shall submit detailed bi-monthly probation reports to the Executive Director of the Nevada Board, which shall report any work completed in Nevada during the previous two (2) month period. A report shall be filed even if no work was performed in Nevada during the previous two (2) month period. The first report shall be due within two (2) months of the effective date of this Stipulated Agreement. Each report shall include a copy of the contract executed for any work in Nevada, including the scope of work detail as well as supporting project documentation.

b. Mr Warren shall pay an administrative fine of Seven Thousand Five Hundred and No/100 Dollars (\$7,500.00);

c. Mr Warren shall pay a portion of the assessed legal and investigative costs and fees incurred in this matter in the amount of One Thousand Six Hundred Sixty-Seven and 50/100 Dollars (\$1,667.50).

LAST PROBATION REPORTS DUE September 28, 2021

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE: Digitally signed by Richard L Warren
Date: 2021.04.30 14:28:49 -07'00'

DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

Phase 1 - Tenant improvement
Phase 2 - new steel framed building
Phase 3- Tenant improvement with steel framed addition

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

structural drawing and calculations

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

Closer scrutiny through first and final reviews. Better coordination with contractor and client

SIGNATURE: Digitally signed by Richard L Warren
Date: 2021.04.30 14:28:49 -07'00' DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE: Digitally signed by Richard L Warren
Date: 2021.04.30 14:28:49 -07'00' DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE: Digitally signed by Richard L Warren
Date: 2021.04.30 14:28:49 -07'00' DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE: Digitally signed by Richard L Warren
Date: 2021.04.30 14:28:49 -07'00'

DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE: Digitally signed by Richard L Warren
Date: 2021.04.30 14:28:49 -07'00'

DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE: Digitally signed by Richard L Warren
Date: 2021.04.30 14:28:49 -07'00'

DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE: Digitally signed by Richard L Warren
Date: 2021.04.30 14:28:49 -07'00' DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE: Digitally signed by Richard L Warren
Date: 2021.04.30 14:28:49 -07'00' DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE: Digitally signed by Richard L Warren
Date: 2021.04.30 14:28:49 -07'00' DATE:

Robert “Dooley” Riva, PE 018231

Case Number: 20190001

Violation of NRS 625.520, NRS 625.565, NAC 625.510, and NAC 625.610

Mr Riva allowed his license to lapse on December 31, 2009 and continued to practice professional engineering with an expired license until self-reporting to the board on January 10, 2019.

Mr Riva admitted, during the investigation in this matter, that he stamped, signed, and put false expiration dates for his license on the plans that he had submitted to reviewing agencies, as well as to his clients.

Mr Riva has maintained his California Professional Engineering license throughout this period from prior to December 31, 2009 to the present. Mr Riva's California license is currently in good standing. A third-party competency review of a sampling of the thirty-seven (37) identified Nevada projects, that Mr Riva stamped while unlicensed has been completed, and his work was found to be competent.

NRS 625.410 states that the Board may take disciplinary action against a licensee for practicing after the license of the professional engineer has expired or has been suspended or revoked. NRS 625.520 also states that it is unlawful for any professional engineer to practice in a discipline of professional engineering in which the Board has not qualified him and for any person to use an expired license. Accordingly, NRS 625.565 makes it unlawful for any person to impress any documents with the stamp of a professional engineer after that person's license has expired. In addition, NAC 625.610 requires that licensees include the date of expiration of his or her license on the stamp or seal. Moreover, under NAC 625.510, licensees must be honest and impartial, and serve their employers, clients, and the public with devotion. Mr Riva has violated the aforementioned provisions by continuing to practice professional engineering for nine (9) years after the expiration of his license and knowingly falsifying expiration dates when signing and stamping plans for submission to building departments for permits.

NRS 625.410(5) authorizes the State Board to take disciplinary action against a licensee for a violation of any provision of NRS Chapter 625 or NAC Chapter 625. Further, pursuant to NAC 625.640(3)(b)(2) this matter may be resolved without a formal hearing by Stipulated Agreement.

Mr Riva and the State Board hereby stipulate to the following terms for the above-referenced violation(s):

1. Mr Riva's license shall be reinstated and suspended for ten (10) years immediately following entry of this Agreement, but with the suspension stayed and probation imposed for the duration of that time period.

2. The stay of Mr Riva's license suspension may be lifted by the State Board upon notice and the opportunity for Mr Riva to be heard should Mr Riva fail to abide by the terms hereof.

3. Mr Riva's successful completion of probation is expressly conditioned upon his full compliance with the following conditions of probation:

a. Mr Riva shall pay all of the State Board's legal and investigative costs associated with this matter, in the total amount of Two Thousand Three Hundred Fifty and No/100 Dollars (\$2,350.00), which includes One Thousand Three Hundred Fifty and No/100 Dollars (\$1,350.00) in legal fees and One Thousand and No/100 Dollars (\$1,000.00) for the cost for a third-party competency review of a sampling of the thirty-seven (37) projects stamped by Mr Riva while practicing without a license. This payment is due to the State Board within thirty (30) days of the State Board's acceptance and execution of this First Revised Stipulated Agreement.

b. Mr Riva shall pay an administrative fine to the State Board in the amount of Fifteen Thousand and No/100 Dollars (\$15,000.00), plus Two Hundred and No/100 Dollars (\$200.00) for each of the thirty-seven (37) projects lawfully stamped by Mr Riva, for a total of Twenty-Two Thousand Four Hundred and No/100 Dollars (\$22,400.00). Two Thousand Six Hundred Fifty and No/100 Dollars (\$2,650.00) of this amount is due to the State Board within thirty (30) days of the Board's acceptance and execution of this First Revised Stipulated Agreement. The balance thereof shall be due in five (5) equal annual installments of Three Thousand Nine Hundred Fifty and No/100 Dollars (\$3,950.00). The first (1st) due on or before one year of the State Boards acceptance and execution of this First Revised Stipulated Agreement, and the remaining four payment due on or before each subsequent anniversary thereof, through the fifth (5th) anniversary of the State Boards acceptance and execution of this First Revised Stipulated Agreement.

c. Mr Riva shall undertake and assume all costs associated with reviewing and re-stamping the drawings associated with the aforementioned projects that are on file with the appropriate building departments and provide the Board with sufficient proof thereof.

d. Mr Riva registering in, paying for and completing an advanced level ethics course with Texas Tech University Murdough Center for Engineering Professionalism, and providing proof of completion thereof to Board staff within one (1) year of the date of full execution of this First Revised Stipulated Agreement.

LAST PROBATION REPORTS DUE October 1, 2029

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Robert Dooley Riva PE/PLS #: 018231

EMPLOYER: Riva Engineering & Consulting

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: 2021-1-16 THROUGH 2021-03-15

CLIENT:

NAME: DAVID JUNG

ADDRESS: 447 LAVEVIEW AVENUE

CITY: ZEPHYR COVE STATE: NV ZIP CODE:

PROJECT:

NAME: 447 LAKEVIEW RENOVATION

LOCATION OF PROJECT: 447 LAKEVIEW AVE

CITY: ZEPHYR COVE STATE: NV ZIP CODE:

SIZE: START DATE: 1.19.21 END DATE: NA

STATUS OF PROJECT: SUBMITTED TO DOUGLAS COUNTY

FEE PAID BY CLIENT: \$3500

SCOPE OF WORK:

PROVIDE STRUCTURAL ANALYSIS AND DETAILING FOR RENOVATION OF EXISTING SFR

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

PROVIDED STRUCTURAL ANALYSIS (LATERAL AND GRAVITY), REDMARKED FRAMING PLANS FOR DESIGNER, AND PROVIDED STRUCTURAL DETAILING AND NOTES.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

MY NV LICENSE IS NOT EXPIRED

SIGNATURE: Robert D. Riva

DATE: MARCH 15, 2021

John Skwiot, PE 020561

Case Number: 20190007

Violation of NRS 625.410(2), NAC 625.630(1)(a), NAC 625.630(b), and NAC 625.545.

Mr Skwiot self-reported a disciplinary action imposed against his California professional engineer license by the California Board of Professional Engineers ("California Board").

The facts, as presented in a stipulation and order entered by the California Board, were as follows. In or around 2015, Mr Skwiot found the complainant/Client at issue on a freelance website. The complainant wished to procure an engineering design of a three-unit residential structure in Mammoth Lakes, California. Mr Skwiot and complainant agreed to the cost of services. However, Mr Skwiot did not provide the client with a written contract containing all of the terms required by California Code. Rather, Mr Skwiot and complainant relied upon the "Independent Contractor Services Agreement" provided by the website, which indicates that "Client and [Mr Skwiot] acknowledge and agree that when [Mr Skwiot] accepts an Engagement awarded by Client, Client and [Mr Skwiot] will be deemed to have entered into a 'Member Contract.'" 1 Mr Skwiot and complainant did not sign any additional written agreement(s), although it appears the scope of the work to be performed was outlined on the website. In the Stipulation with the California Board, Mr Skwiot stipulated that he was unprofessional in his dealing with the client, plus failed to complete his engineering services within the time periods set by the project schedule, as agreed upon by Mr Skwiot and complainant. In addition, Mr Skwiot stipulated that he failed to design a project in compliance with the Town of Mammoth Lakes building code requirements, failed to prepare an accurate and correct grading and drainage plan, and failed to prepare erosion control plan. Further, Mr Skwiot's civil details included a retaining and rock wall drawn backward, and intruding upon, and altering grading on, the neighboring property.

Mr Skwiot stipulated with the California Board to the following violations: (1) negligence, (2) incompetence, (3) unlicensed practice of land surveying, (4) unlawful use of the term "structural engineer," (5) failure to provide a written contract, and (6) unprofessional conduct. Pursuant to the California Board Stipulation and Order, Mr Skwiot's license was revoked, but the revocation was stayed pending the successful completion of three (3) years probation, reimbursement of investigative costs in the amount of Ten Thousand Four Hundred Eighty-Nine and 85/100 Dollars (\$10,489.85), completion and passage of the California Laws and Board Rules examination, passage of a Board approved ethics course within one (1) year, and completion and passage of two (2) college-level Board approved engineering courses.

NRS 625.410 states that the Board may take disciplinary action against a licensee for discipline by another state or territory if at least one of the grounds for discipline is the same or substantially equivalent to any ground under Nevada law. The Nevada equivalent of the California violations are as follows: NRS 625.410(2); NAC 625.630(1)(a); NAC 625.630(b); and NAC 625.545.

NRS 625.410(5) authorizes the State Board to take disciplinary action against a licensee for a violation of any provision of NRS Chapter 625 or NAC Chapter 625. Further, pursuant to NAC 625.640(3)(b)(2) this matter may be resolved without a formal hearing by Stipulated Agreement.

Mr Skwiot and the State Board hereby stipulate to the following terms for the above-referenced violation(s):

1. Mr Skwiot's license shall be revoked following entry of this Agreement, but with revocation stayed and probation imposed for a term of three (3) years.
2. The licensee shall submit detailed bi-monthly probation reports to the Executive Director of the Nevada Board, which shall report any work completed in Nevada during the previous two (2) month period. A report shall be filed even if no work was performed in Nevada during the previous two (2) month period. The first report shall be due within two (2) months of the effective date of this Stipulated Agreement. Each report shall include a copy of the contract executed for any work in Nevada, including the scope of work detail.
3. The stay of Mr Skwiot's license revocation may be lifted by the State Board, upon notice and the opportunity for Mr Skwiot to be heard, should Mr Skwiot fail to abide by the terms hereof.

LAST PROBATION REPORTS DUE February 1, 2023

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE: Digitally signed by John Skwiot, P.E.
Date: 2021.04.06 19:57:18 -07'00'

DATE:

Ralph Heninger, PE 005191

Case Number: 20190010

Violation of NRS 625.410(7)

Mr Heninger allowed his license to lapse on July 1, 2017 and continued to practice professional engineering with an expired license until self-reporting to the board on March 20, 2019.

NRS 625.410 states that the Board may take disciplinary action against a licensee for practicing after the license of the professional engineer has expired or has been suspended or revoked. Pursuant to NAC 625.640(3)(b)(2) this matter may be resolved without a formal hearing by Stipulated Agreement.

Mr Heninger and the State Board hereby stipulate to the following terms for the above-referenced violation:

1. Mr Heninger shall pay an administrative fine in the amount of One Thousand Five Hundred and No/100 Dollars (\$1,500.00) within ninety (90) days from the date of the State Board's approval of this Stipulated Agreement.
2. Mr Heninger shall reimburse the State Board for legal fees incurred in this matter in the amount of Seven Hundred Thirty-Eight and 25/100 Dollars (\$738.25) within ninety (90) days from the date of the State Board's approval of this Stipulated Agreement.
3. Mr Heninger shall provide written notification to the developer of the above-delineated Fernley project of the fact that Mr Heninger was unlicensed at the time he performed work thereon, provide the developer with the opportunity to have the improperly stamped plans brought into compliance, and pay any and all costs associated therewith. Mr Heninger shall provide the State Board with a copy of each such written notification.
4. Mr Heninger's license shall be suspended for two (2) years immediately following entry of this Stipulated Agreement, but with the suspension stayed and probation imposed for the duration of that time period.
5. The stay of Mr Heninger's license suspension may be lifted by the State Board, upon notice and the opportunity for Mr. HENINGER to be heard, should Mr Heninger fail to abide by the terms hereof.
6. Mr Heninger's successful completion of probation is expressly conditioned upon his full compliance with the following conditions of probation:

(a) Mr Heninger shall submit detailed bi-monthly probation reports to the Executive Director of the Nevada Board, which shall report any work completed in Nevada during the previous two (2) month period. A report shall be filed even if no work was performed in Nevada during the previous two (2) month period. The first report shall be due within two (2) months of the effective date of this Stipulated Agreement. Each report shall include a copy of the contract executed for any work in Nevada, including the scope of work detail, as well as supporting project documentation.

LAST PROBATION REPORTS DUE September 1, 2022

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT

NAME:

ADDRESS:

CITY: S

PROJECT

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

Project not started.

SIGNATURE:

Tom Lennick

DATE: 10 Mar 2021

Lazell Preator, PE 014982

Case Numbers: 20190008 and 20200003

Violations: NRS 625.410(2), NRS 625.540, NRS 625.560, NAC 625.510, NAC 625.530, and NAC 625.540

Previous 2018 Complaint and Stipulated Agreement

Before setting forth the facts for the two complaints at issue, the following summation of a previous Stipulated Agreement is relevant. A Stipulated Agreement was entered by and between the State Board and Mr Preator on November 8, 2018 ("2018 Stipulated Agreement"), regarding previous Complaint number 20180006. In the 2018 Stipulated Agreement, Mr Preator acknowledged violations of NRS Chapter 625 in which his conduct constituted gross negligence, incompetence, or misconduct in the practice of professional engineering and failure to exercise due care and oversight in submitting the plan set to the office of the Deputy Building and Safety Director for the City of Las Vegas.

The facts pertaining to the 2018 Stipulated Agreement involved the filing of a complaint alleging the submission of plans containing the forged signatures of two senior building officials in an attempt to obtain a building permit.

Specifically, on March 7, 2018, the office of the Deputy Building and Safety Director for the City of Las Vegas received a plan set. The plan set included an irregular and misspelled signature of the City Engineer, Allen Pavelka, with his name signed "Alan" as opposed to the proper spelling "Allen." The plan set further included a signature of a retired Director of Building and Safety, Chris Knight. Mr Preator asserted that he relied on a third party, Jorge Guzman, to acquire said signatures, and that said third party, unbeknownst to Mr Preator, obtained or affixed the forged signatures. Although Mr Preator denied forging the signatures at issue, he admitted that he is responsible for documents that he seals and signs and that he is responsible to use due care and oversight to manage originals and copies of all documents he has signed and sealed.

In the 2018 Stipulated Agreement, Mr Preator's Nevada license was placed on probation for twelve (12) months. As part of his probation, Mr Preator was required to pay certain fines, costs, and fees, and require that he write a Whitepaper on Responsible Charge. The probation under the 2018 Stipulated Agreement has since been completed.

Case No. 20190008 - "Forgery Case"

In regard Case No. 20190008, a complaint has been submitted against Mr Preator by the

Executive Director for the State Board on behalf of a professional land surveyor, alleging fraudulent stamping and signing of legal descriptions.

Specifically, On December 18, 2017, Mr Preator submitted two legal descriptions for a project on Du Fort Avenue to the City of Henderson. The complainant land surveyor inadvertently discovered the two legal descriptions while reviewing projects on the City of Henderson website in August 2019. The two legal descriptions were produced for Preator Consulting by the land surveyor. However, Preator Consulting had not paid for the work, and thus, the land surveyor had not completed the work, as he had not signed or dated the two legal descriptions. The two legal descriptions were, hand signed, dated and submitted to the city on December 18, 2017.

In an effort to explain how the legal descriptions at issue were fraudulently signed, Mr Preator asserts that he relied on the same third-party blamed in the 2018 Stipulated Agreement, i.e., Jorge Guzman, to obtain the stamp and signature of the land surveyor before submitting the legal descriptions now at issue. Mr Preator again asserts that Jorge Guzman must have forged the surveyor's signature before submitting the legal descriptions to the City of Henderson. Although Mr Preator denied forging the signatures at issue, he admits that he is responsible for documents that he submits and that he is responsible to use due care and oversight to manage originals and copies of all said documents.

Mr Preator has not been able to provide any information or documentation regarding his working relationship with Mr Guzman, or any evidence that Mr Guzman exists.

NRS 625.410(2) provides authority for the State Board to administer discipline in Nevada for any gross negligence, incompetency, or misconduct in the practice of professional engineering as a professional engineer. NRS 625.410(5) provides authority for the State Board to administer discipline in Nevada for a violation of any provision of NRS Chapter 625. A licensee violates NRS 625.540 by unlawfully practicing land surveying. Specifically, it is unlawful to present or attempt to use, as his or her own, the license or stamp of another person and to impersonate any other licensee of the same or a different name. Additionally, it is a violation of NRS 625.560 to sign a description unless the person holds an unsuspended and unrevoked license as a professional land surveyor.

NRS 625.410(5) provides authority for the State Board to administer discipline in Nevada for a violation of any regulation adopted by the Board. A licensee violates NAC 625.510 by failing to uphold and advance the honor and dignity of the profession by maintaining high standards of ethical conduct regarding honesty. It is a violation of NAC 625.530 for a licensee to fail to act in professional matters as a faithful agent. A licensee violates NAC 625.540(1) by failing to take

care that credit for engineering or land surveying work is given to those to whom credit is properly due and violates NAC 625.540(4) by failing to not maliciously injure the professional reputation, business prospects or practice of another engineer or land surveyor.

Based on the foregoing, Mr Preator stipulates that he violated NRS 625.410 (2), in that his conduct constituted gross negligence, incompetence, or misconduct in the practice of professional engineering. Mr Preator stipulates that he violated NRS 625.540 by unlawfully practicing land surveying by presenting the license or stamp of another person and by impersonating another licensee. Likewise, Mr Preator stipulates that he violated NRS 625.560 by signing a description without a license as a professional land surveyor.

Further, Mr Preator stipulates that he violated NAC 625.510 by failing to uphold and advance the honor and dignity of the profession by maintaining high standards of ethical conduct regarding honesty. In addition, Mr Preator stipulates that he violated NAC 625.530 by failing to act in professional matters as a faithful agent. Finally, Mr Preator stipulates that he violated NAC 625.540 by failing to take care that credit for land surveying work was given to those to whom credit was properly due and by failing to not maliciously injure the professional reputation, business prospects or practice of another engineer or land surveyor.

Case No. 20200003 - "Faithful Agent Case"

In regard Case No. 20200003, a complaint has been submitted against Mr Preator alleging misconduct and failure to meet terms of a contract.

Specifically, on February 2, 2018, the complainant contracted with Mr Preator to provide civil engineering for an auto body repair shop construction project, and paid Mr Preator a \$7,100 retainer. Per the contract, Mr Preator was to begin working on the project within two days of receiving the retainer. Between February 2018 and February 2020, no work product was provided to the client nor to the professionals and contractors working on the client's behalf. There were various interactions and requests for updates on the status of the project. Mr Preator asserts that, during the project, he was unable to speak with the architect on the project, from whom Mr Preator asserts that he received differing site plans. Nevertheless, Mr Preator informed the client that various items were under review by planning authorities, even though they were never actually submitted.

NRS 625.410(2) provides authority for the State Board to administer discipline in Nevada for any gross negligence, incompetency, or misconduct in the practice of professional engineering as a professional engineer. NRS 625.410(5) provides authority for the State Board to administer discipline in Nevada for a violation of any regulation adopted by the Board. A licensee violates NAC 625.510 by failing to uphold and advance the honor and dignity of the

profession by maintaining high standards of ethical conduct regarding honesty. It is a violation of NAC 625.530 when a licensee fails to act in professional matters as a faithful agent.

Based on the foregoing, Mr Preator stipulates that he violated NRS 625.410(2), in that his conduct constituted gross negligence, incompetence, or misconduct in the practice of professional

engineering. Further, Mr Preator stipulates that he violated NAC 625.510 by failing to uphold and advance the honor and dignity of the profession by maintaining high standards of ethical conduct regarding honesty. Finally, Mr Preator stipulates that he violated NAC 625.530 by failing to act in a timely and professional matters as a faithful agent.

Pursuant to NAC 625.640, a disciplinary matter may be resolved without a formal hearing by a Stipulated Agreement. To that end, to resolve Complaint Numbers 2019008 and 20200003, Mr Preator and the State Board resolve this matter on the following basis:

(1) Mr Preator's Nevada license shall be suspended for thirty-six (36) months following entry of this Agreement, pursuant to NRS 625.410 (2) and NAC 625.530, but with the suspension stayed and probation imposed for the duration of that time period.

(2) The stay of Mr Preator's suspension may be lifted by the State Board upon notice and the opportunity to be heard should Mr Preator fail to abide by the terms hereof.

(3) Mr Preator's successful completion of probation is expressly conditioned upon his full compliance with the following conditions of probation:

(a) Mr Preator shall pay a fine of Five Thousand and Noll 00 Dollars (\$5,000.00) for the Forgery Case and a fine of Two Thousand and No/1 00 Dollars (\$2,000.00) for the Faithful Agent Case, for a total fine of Seven Thousand and No/100 Dollars (\$7,000.00), within six (6) months of acceptance and execution of this Agreement by the State Board.

(b) Mr Preator shall pay the professional land surveyor in full under his contract therewith for work on the Du Fort project.

(c) Mr Preator shall pay for cost of hiring a Nevada licensed professional land surveyor to review, re-stamp and sign the Du Fort legal descriptions.

(d) Mr Preator shall immediately notify client and the relevant public entity via letter, with copy to the Board, of the necessity of the Du Fort legal descriptions to be re- submitted with lawful stamping and signature.

(e) Mr Preator shall reimburse in full the deposited amount the complainant paid for the Autobody Repair Shop project.

(f) Mr Preator shall pay the State Board Two Thousand Seven Hundred Sixty-Nine and 50/100 Dollars (\$2,769.50) as reimbursement of administrative expenses in this matter.

(g) Mr Preator registering in, paying for and completing an entry level ethics course with Texas Tech University Murdough Center for Engineering Professionalism, and providing proof of completion thereof to Board staff.

(h) Mr Preator shall provide to the State Board staff, within thirty (30) days of execution of this agreement by the State Board, a list of projects that were submitted for governmental review in 2017 and 2018, and provide project names, clients, and to which agencies submissions were made. These submissions will be reviewed by State Board staff to determine and identify any other possible statutory and/or regulatory violations.

(i) Mr Preator shall submit detailed bi-monthly probation reports to the Executive Director of the Nevada Board, which shall report any work completed in Nevada during the previous two (2) month period. A report shall be filed even if no work is performed in Nevada during the previous two (2) month period. The first report shall be due within two (2) months of the effective date of this Stipulated Agreement. Each report shall include client contact information and a copy of the contract executed for any work in Nevada, including the scope of work detail.

(j) Mr Preator shall provide proof of the completion of thirty (30) professional development hours that are required on a biennial basis for license renewal, pursuant to NAC 625.430 and NAC 625.480.

LAST PROBATION REPORTS DUE February 1, 2024

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Lazell H. Preator PE/PLS #: 114982

EMPLOYER: Preator Consulting, LLC

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Jan 21, 2021 THROUGH: Mar 20, 2021

CLIENT:

NAME: A1 Fence

ADDRESS: PO Box 29031

CITY: Las Vegas STATE: NV ZIP CODE: 89126

PROJECT:

NAME: 4240 Carnation Ln

LOCATION OF PROJECT: 4240 Carnation Ln

CITY: Las Vegas STATE: NV ZIP CODE:

SIZE: small START DATE: Mar 21 END DATE: Aug 21

STATUS OF PROJECT: Preparing plans for Meeting with City

FEE PAID BY CLIENT: 1050

SCOPE OF WORK:

Prepare plans and documents for the submittal of compliance with a violation of placement of a fence. Size of fence does not require calculations

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

Prepare all drawings. Submit plans electronically to CLV. Attend PC & CC meeting.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

Submit all information electronically. No routing of signatures required.

SIGNATURE: 

DATE: Mar 31, 2021

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE:

DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE:

DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Lazell H. Preator PE/PLS #: 014982

EMPLOYER: Preator Consulting, LLC

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Jan 21, 2021 THROUGH: Mar 20, 2021

CLIENT:

NAME: ATI Restoration

ADDRESS: 70 Corporate Park Dr

CITY: Henderson STATE: NV ZIP CODE: 89074

PROJECT:

NAME: 2654 W. Horizon Ridge Pkwy

LOCATION OF PROJECT: 2654 W. Horizon Ridge Pkwy

CITY: Henderson STATE: NV ZIP CODE:

SIZE: Small START DATE: Jan 21 END DATE: Jan 21

STATUS OF PROJECT: Submitted to Contractor

FEE PAID BY CLIENT: 1750

SCOPE OF WORK:

Review repair work completed and prepare an engineering letter concerning the framing and conditions per a request by the City of Henderson Development Services.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

Field visit and prepared letter. Reviewed all drawings and calculations. Submit plans electronically to city.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

Submit directly to City

SIGNATURE: 

DATE: Mar 31, 2021

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE:

DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

Design an offsite waterline to feed the concrete plant site (previously designed grading (approved) and primary issues in 2017. Project includes design of 8" waterline, easements and hydrant. Note that project was delayed for dedication of Moccasin for development to the east.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

Review survey. Provide design of waterline, easement and process through agencies (via POGO Diversified)

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

Did work personally; reviewed all plans for compliance to current code. Used licensed agent for processing (POGO Diversified) where submittals were not electronic.

SIGNATURE:

DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

Prepare plans for the reconstruction of a 1940's era home which sustained substantial damage due to a fire. Includes architectural plans, repair details. Shells for MP&E.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

Prepare all drawings and calculations. Submit electronic plans

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

Keep client and contractor (project was on hold for several months while client selected general contractor) updated on status. submit all plans electronically

SIGNATURE:

DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:
NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:
NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE: DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE:

DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Lazell H. Preator PE/PLS #: () 014982

EMPLOYER: Preator Consulting, LLC

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Jan 21, 2021 THROUGH: Mar 20, 2021

CLIENT:

NAME: ATI Restoration

ADDRESS: 70 Corporate Park Dr

CITY: Henderson STATE: NV ZIP CODE: 89074

PROJECT:

NAME: Truss Repair

LOCATION OF PROJECT: 6500 W Vegas Drive, Unit 2080

CITY: Las Vegas STATE: NV ZIP CODE:

SIZE: Small START DATE: Jan 21 END DATE: Jan 21

STATUS OF PROJECT: Submitted to Contractor

FEE PAID BY CLIENT: 850

SCOPE OF WORK:

Prepare small drawings and calculations for the repair of trusses from Fire Department cuts

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

Prepare all drawings and calculations. Submit plans electronically to client/contractor.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

Submit directly to contractor who is responsible for submitting to City.

SIGNATURE:

DATE: Mar 31, 2021

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE:

DATE:

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Lazell H. Preator PE/PLS #: 014982

EMPLOYER: SNFITT

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Jan 21, 2021 THROUGH: Mar 20, 2021

CLIENT:

NAME: Clark County Public Works

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME: 605535-19, 605526-19, 605468-19, 605445-19, 605501-19

LOCATION OF PROJECT: Various

CITY: STATE: ZIP CODE:

SIZE: QC START DATE: Jan 20 END DATE: Ongoing

STATUS OF PROJECT: Various

FEE PAID BY CLIENT: NA

SCOPE OF WORK:

Trenching and paving-Review of QCM reports

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

Review monthly reports for compliance to plans. Review any deficiencies in materials and testing.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

Review documents, including testing reports. Upload letters (digitally signed) to Submittal Exchange

SIGNATURE:  DATE: Mar 31, 2021

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE:

DATE:

10. [Intentionally Left Blank]

11.Sub-Lease of Las Vegas Office



May 4, 2021

Patty Mamola, PE
Executive Director
Nevada Board of Professional Engineers & Land Surveyors
1755 E Plumb Lane, Suite 258
Reno, NV 89502

Re: Las Vegas Office at 241 West Charleston Blvd., Suite 130 Proposal

Ms. Mamalo;

LGA Architecture (LGA) is a tenant at the Holsum Design Center at 241 West Charleston Blvd. in Las Vegas, NV. We understand your organization has a Las Vegas office Suite 130 in the same building. Over the last few years, we have observed the office space is seldom occupied and was even less occupied in the last year due to the pandemic.

LGA is interested in using the Holsum Design Center office space when it is not in use by your organization. Use of the office would allow LGA more space and flexibility for our meetings, events and activities.

Our understanding of Suite 130 is the existing area is approximately 1,100 square feet, which includes a conference space with tables and chairs, one office, and a kitchen area. Additionally, the space has access to the courtyard on the east side of the building.

We are proposing the following;

- \$750.00 / month to use the space
- Seven month agreements, which would start no 6/1/21, with option to renew or change to month-to-month
- LGA will work with NV Board of Prof. Engineers to block out dates needed for their use (currently anticipating approx. 2-4 days a month)
- LGA will provide our own internet connection
- LGA will pay monthly power bill during lease
- LGA will have space cleaned biweekly during lease
- LGA is allowed access to all of the space and use of the HDTVs
- Use of the space includes client, consultant, team meetings, and inner-office meetings

Please review and feel free to contact me with any questions or clarifications.

Sincerely,
LGA Architecture

Lance J. Kirk, AIA, NCARB, LEED AP
Principal

12. Board Counsel Report

13. Lynn Affleck's Petition for Re-Licensure

MEMORANDUM

Nevada Board of Professional Engineers and Land Surveyors

To: Patty Mamola, Executive Director
From: Murray Blaney, Compliance/Operations
Date: May 5, 2021
Subject: Lynn H Affleck Petition for Re-Licensure

Background

Following is Mr Affleck's licensing history:

- Initial PE Civil license issued by California August 18, 1982, license expired September 30, 1991
- Comity PE Civil license issued by Nevada July 24, 1987, license was revoked January 14, 2010
- Comity PE Civil license issued by Utah December 22, 2004, license is current and expires March 31, 2023

Following are the disciplinary actions that precipitated Nevada revoking Mr Affleck's license:

May 23, 2006 – Decision and Order (Mohrhardt Complaint)

Following a formal hearing Mr Affleck was disciplined by Decision and Order for stamping and signing a structurally deficient design for the Mohrhardt residence in Las Vegas, Nevada.

The Decision and Order issued by the board suspended, then stayed, Mr Affleck's license for a period of two years, probation was imposed for the same period. Completion of his probation was conditioned on compliance with conditions outlined in the order, attachment C.

May 21, 2007 – First Supplement Decision and Order

A supplemental Decision and Order was issued related to the routing and review of probation reports, and to request status on select conditions from the original order, attachment D.

February 28, 2008 – Second Supplement Decision and Order

Following a complaint filed against Mr Affleck in November 2007 by the Executive Director of the board, alleging failure to comply with the terms of his probation, and a hearing before the board, a second supplement Decision and Order was issued, attachment E.

The supplemental order extended the probation imposed on Mr Affleck's license for an additional two years, to May 11, 2010. Additional conditions were outlined in the order, the most notable being a permanent structural limitation was placed on his civil license where he could not practice structural engineering unless authorized to do so in writing by the board.

January 25, 2010 – Decision and Order (Gantvoort Complaint)

While still on probation for the 2006 Decision and Order and supplemental actions, Mr Affleck was disciplined for misconduct and failure to comply with an order of the board, for offering and providing structural engineering services while expressly prohibited from doing so, attachment F.

The board subsequently ordered that Mr Affleck's Nevada professional engineering license be revoked with immediate effect. Additional conditions were outlined including that Mr Affleck could not apply for re-licensure until January 14, 2012, and that before seeking re-licensure he must have complied with all terms of the January 25, 2010, order issued by the board.

To be noted—

Mr Affleck filed a petition for judicial review in the Clark County District Court. After consideration by the court, the petition was denied August 2010, and an order was issued affirming the board's decision.

Mr Affleck then appealed the Clark County District Court's decision to the Nevada Supreme Court. Following review, the Supreme Court issued an order in February 2012 upholding the ruling of the Clark County District Court.

Discussion

Mr Affleck submitted a Petition for Re-licensure dated April 23, 2021, attachment A. Mr Affleck has also submitted his NCEES Record as his application for re-licensure, attachment B. Pursuant to the board's decision and order, Mr Affleck was eligible to petition the board for re-licensure January 14, 2012 providing he complied with all terms of the January 25, 2010 Decision and Order issued by the board, attachment F. Following are the terms of the order and the status of compliance:

- Lynn H Affleck's license to practice civil engineering in the State of Nevada, license number CE 7676, is revoked.
 - *Nevada PE Civil license revoked on January 14, 2010.*
- Mr Affleck shall reimburse the sum of \$1,200.00 to Mr and Mrs Gantvoort within thirty (30) days from January 14, 2010.
 - *The Gantvoort's were not reimbursed within thirty days from January 14, 2010. Our records show reimbursement on or around September 14, 2010.*
- Mr Affleck shall reimburse the State Board for its investigative costs incurred in this matter in the amount of \$2,500.00 within thirty (30) days from January 14, 2010.
 - *We have no record of payment being made. This item is outstanding.*
- Mr Affleck may not apply for re-licensure until January 14, 2012.
 - *Received petition for re-licensure April 23, 2021*
- Mr Affleck shall immediately notify each of his existing clients in writing that his license to practice professional engineering in the State of Nevada has been revoked. Mr Affleck shall provide the Executive Director of the State Board with proof of the written notification to his clients within thirty (30) days from January 14, 2010.
 - *No verifying record of this action was found in Mr Affleck's compliance file.*

- Mr Affleck must cause Affleck Engineering to have a Nevada licensed professional engineer as a full-time employee of the firm if he allows Affleck Engineering to advertise, perform or offer to perform professional engineering services in the State of Nevada.
 - *No verifying record of this action was found in Mr Affleck's compliance file.*
- Prior to seeking re-licensure in the State of Nevada, Mr Affleck must have complied with the terms and provisions of this Decision and Order.
 - *According to our records, Mr Affleck is not in compliance with two of the stated terms and there were no records found for two other stated terms—*
 - Payment to the Gantvoorts within the specified 30 days (payment made about September 14, 2010, about 210 days after specified deadline)
 - Reimbursement to the board of \$2,500 within the specified 30 days (no record of any payment or communication about payment)
 - No record of client notifications.
 - No record of Affleck Engineering retaining a licensed professional for Affleck Engineering.
- The imposition of the discipline set forth in the Decision and Order does not limit the powers of the State Board to impose further discipline upon Mr Affleck on matters not yet presented to the State Board.

Proposed Action

The board to consider and possibly act on Mr Affleck's petition for re-licensure.

ATTACHMENT A

Lynn H. Affleck
2833 South US Hwy 89
Wellsville, UT 84339

April 23, 2021

Nevada State Board of Professional Engineers and Land Surveyors
1755 E Plumb Lane, Suite 258
Reno, NV 89502

Attention: Executive Director

Subject:

**Petition for Relicensure
Lynn H. Affleck, Professional Engineer, License No. 007676 (Civil)**

Dear Sirs:

On January 25, 2010 a Decision and Order was issued by the Nevada State Board of Professional Engineers and Land Surveyors (the "State Board"), which revoked my Professional Engineer License No. 007676 for Lynn H. Affleck. This is a petition to the State Board for relicensure of said license.

MY CURRENT STATUS AS IS APPLICABLE TO RELICENSURE

After my license was revoked in 2010, I closed down my engineering business and off-loaded any remaining engineering projects to GIS Engineering, a separate company, with Principal Engineer Jeffery J. Jensen, P. E. No. 15737. I was hired by Mr. Jensen and have been working under his supervision and under his license since then. While working at GIS Engineering, I have not been considered to be an engineer. I have been participating in land development related work. I have focused on things like grading, drainage, sewer and water utilities, street improvements and the like. This arrangement has been agreeable with Mr. Jensen.

Several years have gone by and Mr. Jensen has learned to trust me. I believe he finds my experience and insights valuable. I find that people like the service I provide under his direction and some want to be repeat customers. Recent developments have encouraged me to seek relicensure, which would be a great help to Mr. Jensen, and others. He is encouraging me to do so.

In review the January 25, 2010 Decision and Order, I have come to believe that I have been compliant with all the terms and conditions set forth in that Decision and Order. With this Petition I hope to demonstrate I have corrected previous faults and have been compliant as directed by the State Board. If by chance there is found anything, wherein I might still be remiss, I am ready to do my best to rectify whatever is necessary.

ATTACHMENT A

TERMS SET FORTH IN THE JANUARY 25, 2010 DECISION AND ORDER

The terms and conditions set forth in the January 25, 2010 Decision and Order are listed below with responses.

- 1. Lynn H. Affleck's license to practice civil engineering in the State of Nevada, license number CE 7676, is revoked.**

Response: This item is self-explanatory.

- 2. Mr. Affleck shall reimburse the sum of \$1,200.00 to Mr. and Mrs. Gantvoort within thirty (30) days from January 14, 2010.**

Response: \$1,200.00 was paid to Mrs. Gantvoort as acknowledged by her, August of 2010. The delayed payment was due to a failed appeal in Civil Court.

- 3. Mr. Affleck shall reimburse the State Board for its investigative costs incurred in this matter in the amount of \$2,500.00 within thirty (30) days from January 14, 2010.**

Response: This payment was also delayed pending the appeal process. To my knowledge this payment was made, however, my bank's records do not go back far enough to provide evidence. If it is determined that it is still owed, I am willing to pay.

- 4. No administrative fine is assessed.**

Response: This item is self-explanatory.

- 5. Mr. Affleck may not apply for relicensure until January 14, 2012.**

Response: Today's date of April, 2021 is well beyond the specified time limitation.

- 6. Mr. Affleck shall immediately notify each of his existing clients in writing that his license to practice professional engineering in the State of Nevada has been revoked. Mr. Affleck shall provide the Executive Director of the State Board with proof of the written notification to his clients within thirty (30) days from January 14, 2010.**

Response: At the time of the revocation, I elected to close my engineering business. I was able to offload backlog to another engineering firm by the name of GIS Engineering with Jeffery J. Jensen, P.E. No. 15737, as Principle Engineer. All backlog clients were informed that their projects would be completed by this firm. Any new clients coming to me for engineering services, were referred to Mr. Jensen.

- 7. Prior to the seeking relicensure in the State of Nevada, Mr. Affleck must have complied with the terms and provisions of this Decision and Order.**

Response: To my knowledge I have complied with the terms and provisions of the January 25, 2010 Decision and Order.

8. Mr. Affleck must cause Affleck Engineering to have a Nevada licensed professional engineer as a full time employee of the firm if he allows Affleck Engineering to advertise, perform or offer to perform professional engineering services in the State of Nevada.

Response: The Affleck Engineering business was closed. Advertising and offers to perform professional engineering services by Affleck Engineering ceased at that point. As such there was no need to hire a licensed professional engineer.

9. The imposition of the discipline set forth in this Decision and Order does not limit the powers of the State Board to impose further discipline upon Mr. Affleck on matters not yet presented to the State Board.

Response: To my knowledge no additional complaints have surfaced.

STATEMENT ON COMPLIANCE

To my knowledge, I am currently in substantial compliance with all of the terms set forth in the January 25, 2010 Decision and Order. I hope to be found ready and worthy for relicensure.

DISCUSSION ON BEING PERMITTED TO DO STRUCTURAL ENGINEERING

Previous to January 25, 2010, with one exception, all issues, concerns, terms and conditions set forth by the State Board relative to Lynn Affleck, have been either addressed and settled, or they have been brought forward to be incorporated in the terms and conditions set for in the January 25, 2010 Decision and Order. The exception was put forth in a Decision and Order signed February 28, 2008. On Page 4 of that Order is found the following:

2. b. Mr Affleck must cease practicing structural engineering. Any structural projects undertaken by Mr. Affleck that have not been previously completed, reviewed and approved by the State Board's designated reviewer, Diane C. Hunt, P.E., and the appropriate building department must be referred by Mr. Affleck to a Nevada Licensed structural engineer.

And on Page 5 is found the following:

3. The limitation placed on Mr. Affleck's license precluding Mr. Affleck from practicing structural engineering is permanent and is not limited to the period of probation. Mr Affleck may not practice structural engineering unless authorized to do so in writing by the State Board.

ATTACHMENT A

Response: While this Petition seeks relicensure of my Professional Engineer License, there comes a question about this stipulation, which permanently precludes me from doing structural engineering, unless authorized to do so in writing by the State Board. While I have been working under another engineer's supervision, I have not done any structural engineering, nor any work relative to structures, nor have I made any inspections nor written any reports. I have found that honoring the limitation has not limited my productivity. I am prepared to say that it is not important to my current work, whether this stipulation is continued forward or if it is removed. I have plenty of work to keep me busy, in any event.

That being said, it should be acknowledged that it is not normal for a Professional Engineer to have an obscure preclusion attached to his license. Normally, for a Civil Engineer to have a specialty, it is his training and experience, which determines the specialty, not a preclusion attached to the license. If relicensure occurs, it would seem that the preclusion would be removed such that the license would be treated the same way as any other license is treated. As such, I include in the Petition a request to remove the preclusion. Being that the removal of the preclusion is not a personal requirement of mine, I leave this question up to the discretion of the State Board. For convenience, within the Petition, this preclusion is kept as a separate part. The State Board can grant either one part or both parts of the Petition.

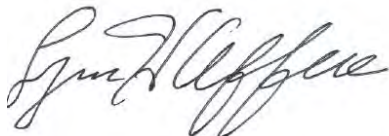
THE PETITION

For reasons set forth above, I do hereby petition the Nevada State Board of Professional Engineers and Land Surveyors for:

Part a. Relicensure of P. E. No. 007676, Lynn H. Affleck (Civil).

Part b. Removal of the stipulation, which prohibits said license from performing structural engineering.

Sincerely,



Lynn H. Affleck

LYNN AFFLECK (17-937-98) ATTACHMENT B

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Comity - PE

Application Date
04/01/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
11 years, 2 months

Total Engineering
Experience
11 years, 2 months

Experience under licensed
engineer
11 years, 2 months

Disciplinary Action In:
NV, NV



EDUCATION



Non-degree
Utah State University
September 1965–May 1966

Bachelors in Civil Engineering (EAC)
University of Utah
January 1968–June 1972



EXAMS



Fundamentals of Engineering (FE)
Utah
September 1972

Principles and Practice of Engineering (PE)
Civil
California
April 1982

LICENSES



Initial License
Nevada
Issued: July 1987
Expires: December 2010

Initial License
California
Issued: August 1982
Expires: September 1991

Additional Licenses
UT

LYNN AFFLECK (17-937-98) ATTACHMENT B

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Coon King & Knowlton
Utah (United States)
Engineer in Training
June 1972—November 1973

Verified by
Lynn Affleck (Self)

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



TASKS

I drew up structural plans and did certain structural calculations for various commercial projects.



REPRESENTATIVE PROJECTS

I drew construction plans for a food warehouse building, which had a section of the building as a freezer/refrigerator. Plans included Floor Plan, Roof Plan, Structural Foundation Plan and Details, and Structural Wall Sections.

I also drew structural plans for the roof of a grain storage facility.

LYNN AFFLECK (17-937-98) ATTACHMENT B

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

*FC Torkelson Engineers
Utah (United States)
Engineer in Training
November 1973—June 1974*

*Verified by
Lynn Affleck (Self)*

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



TASKS

I did structural calculations and structural design for construction plans for mining operations. My work needed to comply with mechanical requirements.



REPRESENTATIVE PROJECTS

Representative projects are as follows:

Gilsonite Mine project. I designed the structural support system for the extraction of Gilsonite out of a mine. The constraint on this project was that we had to use timber that was local to the mine location, i.e. lumber from pine trees up in the mountains.

WORK EXPERIENCE

CE-Lummus
Texas (United States)
Lead Structural Engineering Specialist
June 1974—July 1983

Verified by
Lynn Affleck (Self)

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



TASKS

I provided structural calculations and structural sketches to be drafted as structural plans for construction for CE-Lummus, a design-build company, for petro-chemical projects ranging from \$300 million to \$500 million in size.

I was promoted to Lead Structural Engineering Design Specialist, and I was in charge of up to 12 other structural design engineering specialists



REPRESENTATIVE PROJECTS

Representative projects are as follows:

Gulf Oil Olefins project.

I provided structural engineering calculations for foundations for various kinds of mechanical equipment and various steel structures, being exposed to hurricane winds.

Field assignment --Troubleshooter

After the Gulf Oil Olefins Plant was 70% constructed, I was assigned to the field to answer any structural design concerns. I took requests from Project Engineers, Iron Workers, Pipe Fitters, Electricians, and special requests from Gulf Oil representatives. Whenever I drew up the solution on paper, it was issued for construction and I could physically inspect it, after it was constructed. When my field assignment was expected to be ended, the client made a special request that I remain in the field as a troubleshooter for an additional 3 months.

Exxon/Mobile Olefins Plant

Upon returning to the office after 15 months in the field, I was promoted to design supervisor over a team of structural engineering specialists for the Exxon/Mobile Olefins Plant. I was responsible writing specifications for design and for the conceptual design of structures. I would assign them to my team of engineers for final design. I coordinated with other disciplines in the office and provided for continuity in the work.

WORK EXPERIENCE

*N.L. Industries
Texas (United States)
Research Engineer, Private Contractor
July 1983—October 1984*

*Verified by
Lynn Affleck (Self)*

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



TASKS

After oil prices plummeting there were serious layoffs in the industry. After being laid off, I was able to secure a position as the operator of a small testing laboratory performing research on the characteristics of oil well drilling muds. NL Industries supplied drilling mud additives and products for drilling oil wells. The purpose of the testing laboratory was to provide statistical information on various drilling muds, which could describe the characteristics, and predict the performance of drilling muds down in the well. Using parameters thus produced it was hoped that measurements taken while drilling could be used to distinguish when the drilling bit was passing through a productive layer of strata.



REPRESENTATIVE PROJECTS

Representative project is as follows:

In the laboratory I used a stainless steel vessel in which a sample of drilling mud was placed. Nitrogen bottles with hoses were used to provide pressure in the top of the vessel above the mud. A filter was placed at the outlet of the vessel. After the vessel was pressured up to approximate pressures that would typically be encountered in the well, the outlet valve would be opened and the filtrate volume would be measured against time. This data would be plotted on a graph to determine a slope that would identified as a characteristic of the mud being tested. Also the thickness of the mud-cake that developed above the filter would be correlated with the volume of filtrate collected.

After the testing procedures were established, variations on the experiments were developed. I designed a special plastic vessel in which a cylinder of rock was substituted for the filter, whereas down in the well the filtrate would be flowing into the rock formation and this would more closely represent well conditions. Filtrate was collected and measured against time after it had passed through the rock. A pump was added which could circulate mud through a circular hose to simulate the flow of mud in the well. I designed a special experiment wherein the nitrogen bottles, the vessel, the rock sample, the pump and the hoses, being portable, were all taken into a hospital to be cat-scanned, live, while the experiment was taking place. X-ray images were thus created which demonstrated visually what was being calculated mathematically. These images could then be used in presentations, which represented the progress of the research.

WORK EXPERIENCE

Holmes & Narver
Nevada (United States)
Civil Engineer
October 1984—November 1986

Verified by
Lynn Affleck (Self)

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



TASKS

After my tenure in research, I was able to find a structural design position at the Tonopah Test Range in Nevada. I was lead engineer of the Structural Engineering section. Whereas the Test Range was under construction, I was responsible to provide structural calculations and design sketches to be drafted up for construction. The design was done on-site. All individuals working on location were required to have background checks. The Test-Range was being constructed for the US Department of Energy.



REPRESENTATIVE PROJECTS

Representative project is as follows:

I designed the foundation for a pre-engineered metal building. I provided structural calculations and design for the foundation. This responsibility included the proper placement of anchor bolts to accommodate the steel column base plates.

However, the responsibility also included coming up with a viable remedy, when the contractor failed to install the anchor bolts per the approved plans.

LYNN AFFLECK (17-937-98) ATTACHMENT B

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Holmes & Narver
Nevada (United States)
Civil Engineer
November 1986—December 1988

Verified by
Lynn Affleck (Self)

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



TASKS

When the Tonopah Test Range was nearing completion, Holmes and Narver also was the design engineering firm used to design the Nuclear Waste Repository in Nevada. Therefore I was transferred from the Tonopah Test Range to Las Vegas to continue working for Holmes and Narver under a different venue, helping to design the Nuclear Waste Facility. At that time my duties included the design of roadways with access to staging and working pads for various above ground facilities at the Repository site.



REPRESENTATIVE PROJECTS

Representative project is as follows:

I used existing survey of the raw land and created a roadway design and pad design to help the site be functional. These roadways were not paved but graded with gravel only. I had to maintain limits on slopes and provide adequate work area and elevations of the gravel working pads. I was responsible to provide design to the CAD drafters who made digital drawings of my designs. I would review the drawings for quality control.

WORK EXPERIENCE

*Affleck Engineering
Nevada (United States)
Owner/Principal Engineer
December 1988—December 2009*

*Verified by
Lynn Affleck (Self)*

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



TASKS

While working on the Nuclear Waste Repository Nevada, there came a resistance by the State of Nevada against the Federal Government to have such a repository constructed in the State. Whereas this issue was going to need to be settled in court, an opportunity presented itself for me to leave my employment and start my own engineering firm, Affleck Engineering. Affleck Engineering was primarily involved in land development projects, both residential and commercial. I was obliged to have projects comply with requirements of all entities and jurisdictions, each having their own protocols. I did Drainage Studies for projects, which were required to be completed before improvement plans could be submitted for review. Projects included the development of Grading Plans, streets, curb, gutter, sidewalk, streetlights, and included the extension of sewer mains, water mains and providing fire protection. Over a 22 year period a wide variety of projects were completed. This work did not include construction or construction supervision



REPRESENTATIVE PROJECTS

Representative projects are as follows:

Public Projects

Client: Clark County Real Property Management - Chuck James and/or Ken Larsen

Scope of work: Provide planning, coordination, field measurements, design of construction plans and documents including Drainage, Grading, Utilities, for:

- Logandale Ballfields
- Clark County Fairgrounds Restroom Addition
- Clark County Rodeo Modular Office Building Addition
- Metro Fleet Storage Paving

Projects for Private Developers:

- Best Western Motel – at Overton, Nevada.

Provide design for Drainage, Utilities, Parking Lot, Street Improvements including the design of highway super elevation at a highway curve, requiring NDOT permits.

- Madyson Crossing – located in City of Las Vegas jurisdiction.

Provide design for Grading and Utilities for 5 story mixed use building.

- 10 East Charleston – located in City of Las Vegas jurisdiction.

Provide design for Sewer and Water upgrades for new use of existing building.

- G-Five Medical Consultants Cultivation Facility – located in Clark County jurisdiction.

Provide design for Drainage, Grading and sewer and water Utilities for a marijuana growing facility requiring NDOT utility permits.

- Green Field Estates Subdivision – located in Logandale, Clark County jurisdiction.

Provide Planning/Zoning Tentative Map application, provide design for Drainage, Grading, Utilities and complete off-site Street Improvements for a Subdivision

- Crisci Building – located in Clark County jurisdiction.

Provide design for Drainage, Grading and Utilities for an Office Building at 8845 West Flamingo Road

WORK EXPERIENCE

GIS Engineering
Nevada (United States)
Project Manager
January 2010—March 2021

Verified by
Jeffery James Jensen
jefferyjjensen@gmail.com

Experience Summary
Full-Time
Engineering: 11 years, 2 months
Post EAC degree: 11 years, 2 months
Experience under licensed engineer: 11 years, 2 months



TASKS

At GIS Engineering I acted as the Project Manager for all land development and civil engineering consulting projects. These have been small to mid size projects. I prepared final civil engineering construction plans and documents ready for permits. I wrote the contracts, handled submittals to all review agencies and was responsible for answering review comments and concerns. Projects represent a wide variety of Civil Engineering experience.

Some of my specific duties included Analysis, Planning and Plan Development, consulting with clients, the production of Civil Improvement Plans for construction, coordination with governmental agencies, CAD Design and Drafting. I was responsible for presentation and quality control of plans prior to issuance for construction.



REPRESENTATIVE PROJECTS

Under the direction of Jeffery J. Jensen, P.E., I acted as Project Manager for the following representative projects:

- 1) WEST CRAIG ROAD BAPTIST CHURCH AUXILIARY BUILDING in Clark County, Nevada.
Scope included the addition of a 4725 sq. ft. Auxiliary Building to an existing 2.5 acre church complex. Architectural plans were provided by others. I was responsible for regrading and the drainage of the site, the design of the parking lot and providing water, sewer and fire prevention services to the new building.
- 2) JOURNEY PORTABLE CLASSROOM ADDITION in Clark County, Nevada.
Scope of work included the addition of an exterior classroom building to an existing and functioning private elementary school. The new building was manufactured and delivered by others. I provided the plans and documents to the City Planning Department to be in compliance with community standards. I was responsible for the redesign of the site and the parking lot to accommodate the new building. I prepared the presentation and represented the owner at Town Board and Planning Commission meetings. I prepared the construction plans for the installation of the new structure.
- 3) 14TH STREET CONDOMINIUMS in the City of Las Vegas.
Scope of work included making a Tentative Map application to upgrade an existing duplex into two condominiums. I prepared the Tentative Map to be presented to the Planning Department for approval. The Final Map was provided by others.
- 4) MONTERREY VILLAS SUBDIVISION in Clark County, Nevada.
Scope of work consisted of the preparing and the prosecution of a Tentative Map for a 16 lot subdivision. The implementation, the construction and the recording of the Final Map were done by others. My duties included the design and drafting of the meets and bounds of each lot and the attendant streets. The Tentative Map included providing easements, vacation of existing street right-of-way, dedication of new street right-of-way, providing tentative plans for sewer, water, fire prevention, street lighting services. I wrote legal descriptions for easements, prepared a tentative drainage system and established tentative finish floor elevations for each lot. I prepared and made presentations to the Town Board and the Planning Commission.
- 5) #75 BEESLEY BATCH PLANT in Clark County, Nevada.
Scope of work includes preparing an existing site for a new use, namely for a commercial concrete mixing plant. The design of the layout of the plant was done by others. My responsibility included the design of the grading and drainage system. This included the design of a wash water capture and containment system, which did not allow surface water from the plant to run into the streets for environmental considerations. I was responsible for the municipal water being provided to the site and the design of the fire lane through the site according to Fire Department requirements. I also designed the septic system for the site. Whereas the only water available was from the City, it became my responsibility to coordinate and satisfy City requirements as well as County requirements.

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.

Yes, Nevada PE license was revoked. I am working with Nevada Board of Engineers to resolve this action.

ATTACHMENT C

1 certification number OT4297. Lynn H. Affleck further admitted that the engineer
2 intern had not previously performed engineering services on a residence as complex
3 and as complicated as the Mohrhardt residence.

4 5. The plans, drawings and calculations prepared, stamped and signed by
5 Lynn H. Affleck on the Mohrhardt residence were incomplete, lacked an end wall
6 brace system and lacked a roof detail.

7 6. Prior to preparing, stamping and signing the drawings, plans and
8 calculations on the Mohrhardt residence, Mr. Affleck failed to provide accurate and
9 complete designs for the construction of the log home and failed to properly
10 supervise and train the engineer intern who worked on the project.

11 7. Mr. Affleck's conduct constitutes grounds for disciplinary action under
12 the provisions of NRS 625.410(2) and (5) which provide that the State Board may
13 take disciplinary action against the licensee for:

14 2. Any gross negligence, incompetency or
15 misconduct in the practice of professional engineering as
16 a professional engineer or in the practice of land
17 surveying as a professional land surveyor.

18 5. A violation of any provision of this chapter or
19 regulation adopted by the Board.

20 8. Mr. Affleck's conduct as described above violates the provisions of
21 NAC 625.520(1) which provides as follows:

22 NAC 625.520 Relations with the public. (NRS 625.140)

23 In a licensee's relations with the public, he shall:

24 1. Have proper regard for the safety, health and
25 welfare of the public in the performance of his
26 professional duties.

27 9. Mr. Affleck elected to have the Complaint submitted to the State
28 Board by Ted Mohrhardt to be reviewed by an advisory committee pursuant to the
provisions of NAC 625.640. A copy of the advisory committee chairman's report
to the State Board was attached as Exhibit "2" to the formal disciplinary Complaint
filed by the State Board and was admitted into evidence at the hearing.

ATTACHMENT C

1 10. On November 10, 2005, Mr. Affleck rejected a proposed Stipulated
2 Agreement prepared by the State Board based upon the findings of the advisory
3 committee. Mr. Affleck requested the matter be scheduled for a formal disciplinary
4 hearing. A copy of the proposed Stipulated Agreement which was rejected by Mr.
5 Affleck was attached as Exhibit "3" to the formal disciplinary Complaint and was
6 admitted into evidence at the hearing.

7 11. During the course of the hearing, Mr. Affleck and his counsel advised
8 the State Board that Mr. Affleck regretted not accepting the provisions of the
9 Stipulated Agreement. Upon consultation with the professional engineers who
10 reviewed his work on the Mohrhardt residence, Mr. Affleck concluded that the
11 matter should have been resolved as outlined in the proposed Stipulated
12 Agreement.

13 THEREFORE, ON MOTION DULY MADE, SECONDED AND UNANIMOUSLY
14 ADOPTED, THE STATE BOARD ORDERED that:

15 1. Lynn H. Affleck's license is suspended for a period of two years, with
16 the suspension stayed, and probation imposed for the same two year period
17 commencing on May 12, 2006 and concluding on May 11, 2008.

18 2. Mr. Affleck's successful completion of his probation is expressly
19 conditioned upon his full compliance with the following conditions of probation.

20 a. Mr. Affleck must complete an engineering design that resolves the
21 structural deficiencies affecting the Mohrhardt residence. The design must be
22 completed, reviewed and approved by Diane C. Hunt, P.E., Ron B. McBryde, P.E.
23 and the Clark County Building Department within 90 days from May 12, 2006.

24 b. During the period of probation, Mr. Affleck must timely submit reports
25 to the Executive Director of the State Board setting forth the nature and scope of
26 the professional engineering work performed by him during the term of his
27 probation. Each report shall set forth in detail the nature of the project, all
28 reference numbers assigned to that project by any governmental entity, and all

ATTACHMENT C

1 rejections by any governmental entity together with an explanation of the
2 corrections required before the governmental entity will approve the submittal.

3 c. The reports shall be submitted to the Executive Director of the State
4 Board before August 1, October 1, December 1, February 1, April 1 and June 1 of
5 each successive year. Mr. Affleck does not have to submit a probationary report
6 on June 1, 2006. His first probation report is due August 1, 2006.

7 d. During the period of probation, all of Mr. Affleck's work involving
8 structures shall be reviewed by a Nevada licensed civil or structural engineer. The
9 State Board designates Diane C. Hunt, P.E., Ron McBryde, P.E. and Russell Davis,
10 P.E. as the professional engineers to review Mr. Affleck's work involving
11 structures. The cost of the reviews performed by the reviewing engineer shall be
12 paid by Mr. Affleck. The probationary reports submitted to the State Board by Mr.
13 Affleck must be stamped by Mr. Affleck and by the reviewing engineer.

14 3. Mr. Affleck shall, within one year from May 12, 2006 successfully
15 complete an ABET approved university level course in structural engineering which
16 emphasizes wood or heavy timbered design or a similar course approved by the
17 Executive Director of the State Board. The course must be approved by the
18 Executive Director prior to Mr. Affleck's enrollment in the course.

19 4. Mr. Affleck shall reimburse the State Board for its investigative costs
20 and fees incurred in this matter in the amount of \$2,500.00 within thirty days from
21 May 12, 2006.

22 5. Mr. Affleck shall pay an administrative fine in the amount of
23 \$3,500.00 within thirty days from May 12, 2006.

24 6. The imposition of the discipline set forth in this Decision and Order
25 does not limit the powers of the State Board from imposing discipline upon Mr.

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27 ///

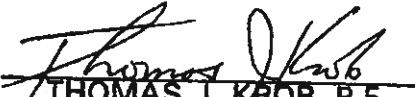
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ATTACHMENT C

1 Affleck on matters not yet presented to the State Board.

2 DATED: This 23 day of May, 2006.

3 STATE OF NEVADA BOARD OF
4 PROFESSIONAL ENGINEERS AND
5 LAND SURVEYORS

6 By 
7 THOMAS J. KROB, P.E.
8 Chairman

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ATTACHMENT D

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BEFORE THE STATE OF NEVADA
BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

IN THE MATTER OF
LYNN H. AFFLECK,
A PROFESSIONAL CIVIL ENGINEER, FIRST SUPPLEMENTAL DECISION
LICENSE NUMBER CE 7676. AND ORDER

On May 23, 2006, the Nevada State Board of Professional Engineers and Land Surveyors (the "State Board") entered its Decision and Order in this matter. Mr. Affleck's license to practice professional engineering in the State of Nevada was suspended for a period of two years, with the suspension stayed and probation imposed for the same two year period commencing on May 12, 2006 and concluding on May 11, 2008.

Mr. Affleck's successful completion of his probation was conditioned upon Mr. Affleck's full compliance with the terms of probation. Mr. Affleck was directed to complete an engineering design that resolved the structural deficiencies affecting the Mohrhardt residence. The design was to be completed, reviewed and approved by Diane C. Hunt, P.E., Ron B. McBryde, P.E. and the Clark County Building Department within 90 days from May 12, 2006.

Mr. Affleck was required to timely submit reports accurately describing the work performed by him during the period of his probation. Additionally, Mr. Affleck's work concerning structures was required to be reviewed by a professional engineer designated by the State Board.

On March 16, 2007, Mr. Affleck wrote to Jess Traver, the Compliance Officer for the State Board, and in part advised as follows:

"Please know that while I have been on probation I have kept my structural engineering to a minimum. During the first three quarters there were only 8 projects that involved structural engineering. ... Unfortunately, I became obligated to my clients to release this work without having a review process in place as described above. We are

ORIGINAL

ATTACHMENT D

1 prepared to make any adjustments in these projects that review might
2 require. I believe that none of these have been fully constructed."

3 In his March 16, 2007 letter, Mr. Affleck stated that the requirements of
4 channeling reports through legal counsel was cumbersome and time-consuming.
5 The Board agrees and directs Mr. Affleck to forward all probation reports directly to
6 Jess Traver, the Compliance Officer for the State Board.

7 The State Board, having reviewed the terms and provisions of the May 23,
8 2006 Decision and Order, the probation reports submitted by Mr. Affleck to the
9 State Board, and Mr. Affleck's March 16, 2007 letter to Jess Traver, enters the
10 following First Supplemental Order:

- 11 1. Board member Dennis Anderson, P.E., is requested to work with the
12 Compliance Officer to review the reports submitted by Mr. Affleck to
13 the State Board.
- 14 2. Mr. Affleck shall advise the Compliance Officer of the status of the 8
15 projects referenced in his March 16, 2007.
- 16 3. Mr. Affleck shall submit his probation reports directly to the
17 Compliance Officer for the State Board;
- 18 4. Mr. Affleck shall advise the State Board as to the status of the
19 correction to the engineering design of the Mohrhardt residence and
20 the repairs made to the Mohrhardt residence.
- 21 5. Except as expressly supplemented by this First Supplemental Decision
22 and Order, the terms of the May 23, 2006 Decision and Order remain
23 in full force and effect.

24 DATED: This 21st day of May, 2007.

25 STATE OF NEVADA BOARD OF
26 PROFESSIONAL ENGINEERS AND
27 LAND SURVEYORS

28 By 

THOMAS A. FOOTE, PLS
Chairman

ATTACHMENT E

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BEFORE THE STATE OF NEVADA
BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

IN THE MATTER OF
LYNN H. AFFLECK,
A PROFESSIONAL ENGINEER,
LICENSE NUMBER CE 7676.

SECOND SUPPLMENTAL
DECISION AND ORDER

On May 23, 2006, the Nevada State Board of Professional Engineers and Land Surveyors (the "State Board") entered its Decision and Order in this matter. Mr. Affleck's license to practice professional engineering in the State of Nevada was suspended for a period of two (2) years, with the suspension stayed and probation imposed for the same two (2) year period commencing on May 12, 2006 and concluding on May 11, 2008.

Mr. Affleck's successful completion of his probation was conditioned upon Mr. Affleck's full compliance with the terms of his probation. Mr. Affleck was directed to complete an engineering design that resolved the structural deficiencies affecting the Mohrhardt residence. Mr. Affleck was also required to timely submit reports accurately describing the work performed by him during the period of his probation. Additionally, Mr. Affleck's work concerning structures was required to be reviewed by a professional engineer designated by the State Board.

On May 21, 2007, the State Board entered its First Supplemental Decision and Order directing Mr. Affleck to advise the Compliance Officer of the State Board concerning eight (8) projects that involved structural engineering, to submit his probation reports directly to the Compliance Officer and to advise as to the status of the correction to the engineering design of the Mohrhardt residence.

On November 13, 2007, the Executive Director of the State Board filed a formal Disciplinary Complaint against Mr. Affleck alleging that Mr. Affleck had

ATTACHMENT E

1 violated the terms and provisions of his probation as set forth in the May 23, 2006
2 Decision and Order and the terms and provisions of the May 21, 2007 First
3 Supplemental Decision and Order. Mr. Affleck did not file an Answer to the
4 November 13, 2007 Complaint.

5 On January 17, 2008, the matter came on regularly for hearing before the
6 State Board in Las Vegas, Nevada. The State Board was represented by Bruce
7 Robb. Lynn Affleck personally appeared and was not represented by counsel.

8 Witnesses having been sworn, testimony heard and evidence having been
9 introduced, the matter was submitted to the State Board for decision and the State
10 Board, after due consideration, did find and decide as follows:

11 1. Lynn H. Affleck is licensed as a civil engineer in the State of Nevada
12 having license number CE 7676.

13 2. On May 23, 2006, the State Board entered its Decision and Order
14 suspending Mr. Affleck's license for a period of two years, with the suspension
15 stayed, and probation imposed for the same two year period commencing on May
16 12, 2006 and concluding on May 11, 2008. Mr. Affleck's successful completion
17 of his probation was expressly conditioned upon his full compliance with the
18 following conditions of probation as set forth in the May 23, 2006 Decision and
19 Order:

- 20 a. Mr. Affleck must complete an engineering design that resolves the
21 structural deficiencies affecting the Mohrhardt residence. The design
22 must be completed, reviewed and approved by Diane C. Hunt, P.E.,
23 Ron B. McBryde, P.E. and the Clark County Building Department
24 within 90 days from May 12, 2006.
- 25 b. During the period of probation, Mr. Affleck must timely submit reports
26 to the Executive Director of the State Board setting forth the nature
27 and scope of the professional engineering work performed by him
28 during the term of his probation. Each report shall set forth in detail
the nature of the project, all reference numbers assigned to that
project by any governmental entity, and all rejections by any
governmental entity together with an explanation of the corrections
required before the governmental entity will approve the submittal.
- c. The reports shall be submitted to the Executive Director of the State
Board before August 1, October 1, December 1, February 1, April 1
and June 1 of each successive year. Mr. Affleck does not have to
submit a probationary report on June 1, 2006. His first probation

ATTACHMENT E

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report is due August 1, 2006.
d. During the period of probation, all of Mr. Affleck's work involving structures shall be reviewed by a Nevada licensed civil or structural engineer. The State Board designates Diane C. Hunt, P.E., Ron McBryde, P.E. and Russell Davis, P.E. as the professional engineers to review Mr. Affleck's work involving structures. The cost of the reviews performed by the reviewing engineer shall be paid by Mr. Affleck. The probationary reports submitted to the State Board by Mr. Affleck must be stamped by Mr. Affleck and by the reviewing engineer.

3. Lynn Affleck failed to timely complete the engineering design concerning the Mohrhardt residence. Mr. Affleck failed to timely submit his probation reports to the Executive Director. Mr. Affleck failed to have his work involving structures properly or timely reviewed by a Nevada licensed civil or structural engineer.

4. On May 21, 2007, the State Board entered its First Supplemental Decision and Order directing Mr. Affleck to forward all of his probation reports directly to Jess Traver, the Compliance Officer for the State Board. The First Supplemental Order also directed Mr. Affleck as follows:

- 2. Mr. Affleck shall advise the Compliance Officer of the status of the 8 projects referenced in his March 16, 2007 letter to Jess Traver, the Compliance Officer for the State Board. . . .
- 4. Mr. Affleck shall advise the State Board as to the status of the correction to the engineering design of the Mohrhardt residence and the repairs made to the Mohrhardt residence.
- 5. Except as expressly supplemented by this First Supplemental Decision and Order, the terms of the May 23, 2006 Decision and Order remain in full force and effect.

5. The May 23, 2006 Decision and Order expressly stated that Mr. Affleck's successful completion of his probation required his full compliance with the conditions of his probation.

6. Lynn H. Affleck failed to comply with the terms and provisions of the May 23, 2006 Decision and Order and the terms and conditions of the May 21, 2007 First Supplemental Decision and Order.

7. Lynn H. Affleck failed to timely complete an engineering design that resolved the structural deficiencies affecting the Mohrhardt residence. The failure

ATTACHMENT E

1 to timely complete that engineering design violated the terms and provisions of the
2 State Board's May 23, 2006 Decision and Order and the terms and provisions of
3 the May 21, 2007 First Supplemental Decision and Order.

4 8. Mr. Affleck's conduct constitutes grounds for disciplinary action under
5 the provisions of NRS 625.410 (8) which provides that the State Board may take
6 disciplinary action against a licensee for failing to comply with an Order issued by
7 the Board.

8 THEREFORE, ON MOTION DULY MADE, SECONDED AND UNANIMOUSLY
9 ADOPTED, THE STATE BOARD ORDERED that:

10 1. Lynn H. Affleck's license was previously placed on probation through
11 May 11, 2008. The period of probation is extended for two (2) additional years.
12 Mr. Affleck's license shall remain on probation through and including May 11,
13 2010.

14 2. Mr. Affleck's successful completion of his probation is expressly
15 conditioned upon his full compliance with the following conditions of probation:

16 a. Mr. Affleck must complete an engineering design that resolves the
17 structural deficiencies affecting the Mohrhardt residence.

18 b. Mr. Affleck must cease practicing structural engineering. Any
19 structural projects undertaken by Mr. Affleck that have not been previously
20 completed, reviewed and approved by the State Board's designated reviewer, Diane
21 C. Hunt, P.E., and the appropriate building department must be referred by Mr.
22 Affleck to a Nevada licensed structural engineer.

23 c. During the period of probation, Mr. Affleck must timely submit reports
24 to the Compliance Officer of the State Board setting forth the nature and scope of
25 the professional engineering work performed by him during the term of his
26 extended probation. Each report shall set forth in detail the nature of the project,
27 all reference numbers assigned to that project by any governmental entity, and all
28 rejections by any governmental entity together with an explanation of the

ATTACHMENT E

1 corrections required before the governmental entity will approve the submittal.

2 d. The reports shall be submitted to the Compliance Officer of the State
3 Board before February 1, April 1, June 1, August 1, October 1 and December 1 of
4 each successive year. Any unexcused failure of Mr. Affleck to timely submit his
5 probationary reports to the State Board constitutes a violation of the terms of his
6 probation and will result in the suspension of his professional engineering license.

7 3. The limitation placed on Mr. Affleck's license precluding Mr. Affleck
8 from practicing structural engineering is permanent and is not limited to the period
9 of probation. Mr. Affleck may not practice structural engineering unless authorized
10 to do so in writing by the State Board.

11 4. Mr. Affleck shall reimburse Mr. Mohrhardt for repair costs incurred by
12 him in the amount of \$2,600.00 within sixty (60) days from January 17, 2008.

13 5. Mr. Affleck shall pay an administrative fine to the State Board in the
14 amount of \$500.00 within sixty (60) days from January 17, 2008.

15 6. Mr. Affleck shall reimburse the State Board for investigative costs
16 incurrd in the amount of \$2,500.00 within sixty (60) days from January 17, 2008.

17 7. The imposition of the discipline set forth in this Second Supplemental
18 Decision and Order does not limit the powers of the State Board from imposing
19 discipline upon Mr. Affleck on matters not yet presented to the Board.

20 DATED: This 28th day of February, 2008.

21 STATE OF NEVADA BOARD OF
22 PROFESSIONAL ENGINEERS AND
23 LAND SURVEYORS

24 By 
25 THOMAS A. FOOTE, PLS
26 Chairman

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ATTACHMENT F

1 building department must be referred by Mr. Affleck to a
2 Nevada licensed structural engineer.

3 10. The February 28, 2008 Second Supplemental Decision and Order
4 further provided that:

5 3. The limitation placed on Mr. Affleck's license
6 precluding Mr. Affleck from practicing structural
7 engineering is permanent and is not limited to the period
8 of probation. Mr. Affleck may not practice structural
9 engineering unless authorized to do so in writing by the
10 State Board.

11 11. Copies of the May 23, 2006 Decision and Order, the May 21, 2007
12 First Supplemental Decision and Order and the February 28, 2008 Second
13 Supplemental Decision and Order were entered as evidence at the January 14,
14 2010 disciplinary hearing.

15 12. Mr. Affleck did not seek judicial review of any of the Decisions and
16 Orders entered by the State Board.

17 13. At the January 14, 2010 disciplinary hearing, Mary Ann Gantvoort
18 testified that she directly asked Mr. Affleck whether he was a structural engineer
19 and whether he was qualified to provide a written report concerning her residence
20 which she could submit to the Nevada State Contractors' Board. Mrs. Gantvoort
21 had previously employed a Nevada licensed civil engineer who advised her that she
22 needed to hire a Nevada licensed structural engineer who could prepare a written
23 report concerning her residence.

24 14. Mrs. Gantvoort's testimony confirmed the comments made in her
25 October 7, 2009 letter to Mr. Affleck which in relevant part states:

26 "I do remember questioning you that it did not say
27 structural engineer as that was one of the main questions
28 I asked you in the beginning. I told you that David who
was a civil engineer had been paid to give me a verbal
report, but we needed a report from a structural engineer.
No mention at this time from you that you could not
perform as a structural engineer".

15. Despite his testimony to the contrary, Mr. Affleck's written
correspondence demonstrates that Mr. Affleck knew he could not perform

ATTACHMENT F

1 engineering involving structures when he began working for the Gantvoorts. Mr.
2 Affleck's September 30, 2009 letter to Jay and Mary Ann Gantvoort in relevant
3 part provides as follows:

4 * * *

5 "THE DELEMA (misspelling is in the original)
6 It has become awkward for me to prove my structural
7 abilities to the Board when I am prevented from [sic]
8 performing such. As you know, Civil Engineers are
9 authorized to do structural designs up to 3 stories. Civil
10 Engineers commonly design concrete structures such as
11 retaining walls, head walls, junction boxes, etc. in
12 conjunction with civil projects. When my probation is up,
13 I have been told that the stipulation that I should not do
14 any structural work will continue indefinitely. According
15 to this, I will be registered Civil Engineer in good standing
16 with the Board, except that I would be different from
17 other Civil Engineers in that I would not be able to do the
18 structural work they can do."

19 16. Mr. Affleck's conduct as described above violates the provisions of
20 NAC 625.530(5) which provides as follows:

21 NAC 625.530 Relations with employers and clients.
22 (NRS 625.140) In a professional engineer's . . . relations
23 with his employers and clients, he shall:

24 * * *

25 5. Undertake only those engineering . . . assignments for
26 which he is qualified and engage or advise his . . . client
27 to engage specialists and cooperate with them whenever
28 his . . . client's interests are served best by such an
arrangement.

17 17. At the time he undertook the Gantvoort residence project, Mr. Affleck
18 was specifically advised by Mrs. Gantvoort that she required a structural engineer
19 who could prepare a written report to be provided to the Nevada State Contractors'
20 Board.

21 18. Mr. Affleck has never been licensed as a structural engineer in the
22 State of Nevada. And, the discipline previously imposed upon Mr. Affleck by the
23 State Board precluded him from performing engineering involving structures.

24 19. In August, 2009, Mr. Affleck submitted his probation report to the
25 State Board which referenced an inspection of the Gantvoort residence.
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ATTACHMENT F

1 incurred in this matter in the amount of \$2,500.00 within thirty (30) days from
2 January 14, 2010.

3 4. No administrative fine is assessed.

4 5. Mr. Affleck may not apply for relicensure until January 14, 2012.

5 6. Mr. Affleck shall immediately notify each of his existing clients in
6 writing that his license to practice professional engineering in the State of Nevada
7 has been revoked. Mr. Affleck shall provide the Executive Director of the State
8 Board with proof of the written notification to his clients within thirty (30) days
9 from January 14, 2010.

10 7. Prior to seeking relicensure in the State of Nevada, Mr. Affleck must
11 have complied with the terms and provisions of this Decision and Order.

12 8. Mr. Affleck must cause Affleck Engineering to have a Nevada licensed
13 professional engineer as a full time employee of the firm if he allows Affleck
14 Engineering to advertize, perform or offer to perform professional engineering
15 services in the State of Nevada.

16 9. The imposition of the discipline set forth in this Decision and Order
17 does not limit the powers of the State Board to impose further discipline upon Mr.
18 Affleck on matters not yet presented to the State Board.

19 DATED: This 25th day of January, 2010.

20 STATE OF NEVADA BOARD OF
21 PROFESSIONAL ENGINEERS AND
22 LAND SURVEYORS

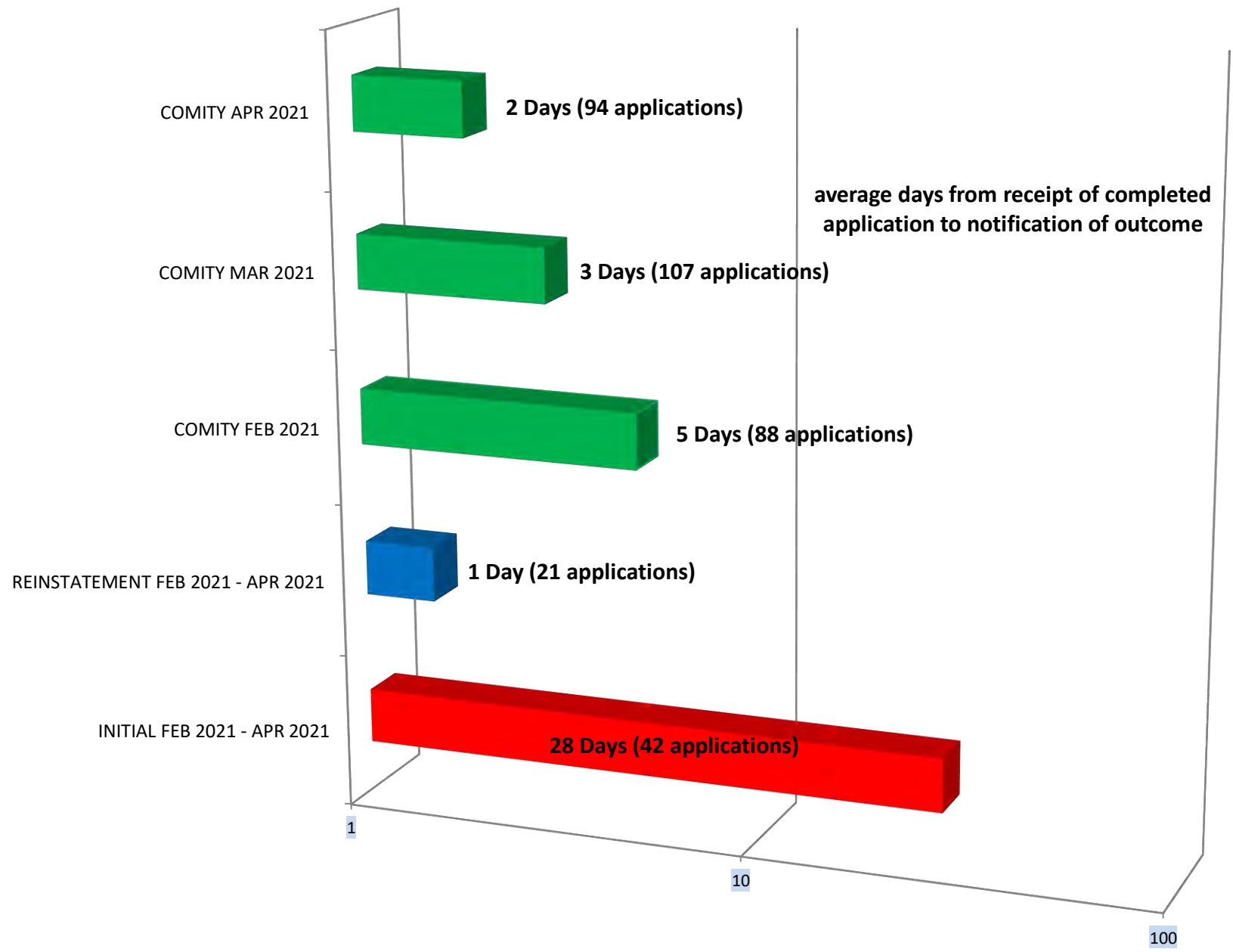
23 By


24 PATTY MAMOLA, PE
25 Chairman

26 ORIGINAL
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14. Administrative Report by Executive Director

14.a. Approved Licensees Report



14.b. 2021-2025 Strategic Plan



STRATEGIC PLAN UPDATE

Executive Summary

Approved November 12, 2020

UPDATED Fall 2020

EXECUTIVE SUMMARY

STRATEGIC PLAN UPDATE ~ SEPTEMBER 11, 2020

The Nevada Board of Professional Engineers and Land Surveyors developed a comprehensive Strategic Plan in March 2017. The plan was created using a 10-30 year planning horizon based on the board's core ideology consisting of a core purpose and core values.

Because the Strategic Plan had been developed in 2017, the board felt it was timely to reconsider its contents. The Board met September 11, 2020 to comprehensively review its Strategic Plan and consider any needed updates to that plan.

At the September 11, 2020 Strategic Planning Session, the board reaffirmed that the goals developed in the current Strategic Plan based on a 10-30 year planning horizon were still relevant. The session then focused on review and refresh of strategies. It was agreed that tactics and action items would be driven by the strategies and developed by the board and its committees at future meetings.

This document restates the board's goals for its updated Strategic Plan and captures the board's strategies for the next 3-5 year planning horizon.

EXECUTIVE SUMMARY

PURPOSE ~ MISSION ~ CORE VALUES

Purpose

The purpose of the board, as stated in Nevada Revised Statute 625.005, is to safeguard life, health and property and to promote the public welfare by providing for the licensure of qualified and competent professional engineers and professional land surveyors.

Mission

Founded on the board's purpose, the board's mission is to uphold the value of professional engineering and land surveying licensure by assessing minimum competency for initial entry into the profession, and to ensure ongoing standard of professionalism by facilitating compliance with laws, regulations, and code of practice; and to provide understanding and progression in licensure by openly engaging with all stakeholders.

Core Values

The board's core values are:

Integrity

Transparency

The core values were identified by board members and staff during the strategic planning sessions as guiding principles in the performance of their duties. A commitment was made to deliver on these values and provide governance that is ethical, honest, and consistent, and to function on a daily basis with accessibility and openness that is without obstruction.

3-5 YEAR PLANNING HORIZON

~ OUTCOME-FOCUSED GOALS AND STRATEGIES ~

The following thinking represents the organization's goals for the next 3-5 years. These **Goals** are outcome-oriented statements that represent what will constitute the Nevada board's future success. The achievement of each goal will move the organization towards the realization of its Envisioned Future. The **Strategies** reflect the broad range of direction that will be undertaken to change the existing conditions in order to achieve the goal – they drive **Tactics** -- the type of work and initiatives that will need to be undertaken to achieve the goal.

Strategies considered at the the September 11, 2020 strategic planning session discussion were presented for board consideration November 12, 2020. New or updated strategies are in bold text.

Outcome-Focused Goals

1. Outreach

The general public, prospective licensees and other key stakeholders have a greater understanding that engineering and surveying licensure are essential to safeguarding public health, safety and welfare.

2. Licensure

The demonstrated value of licensure results in continued growth in the number, quality and diversity of licensed engineers and surveyors practicing in Nevada.

3. Regulation

Nevada regulations are compatible with and reflective of the current state of practice in engineering and surveying and are in alignment with Nevada's economic development strategy.

4. Operational Excellence

The Nevada Board's efficient and effective use of technology and streamlined systems, processes and procedures result in high levels of satisfaction by all stakeholders.

Goal 1: Outreach

The general public, prospective licensees and other key stakeholders have a greater understanding that engineering and surveying licensure are essential to safeguarding public health, safety and welfare.

Strategies

1. Increase legislators understanding of criticality of services provided by the board and professional engineers/professional land surveyors
2. **Evolve technical capability and expand social media presence**
3. Increase visibility of the Board
4. **Sustain appropriate allocation of resources for effective content development**

Goal 2: Licensure

The demonstrated value of licensure results in continued growth in the number, quality and diversity of licensed engineers and surveyors practicing in Nevada

Strategies

1. Increase/stress the importance of licensure to university level students
2. Increase the public's knowledge about the value of licensure
3. Increase kids' knowledge of what engineers/land surveyors do
4. **Continuously work to improve the process and portability of licenses**
5. Provide options to meet land surveyor educational requirements
6. **Increase knowledge of the quality of experience required for licensure to potential licensees**

7. **Maintain relevancy of engineering licensure, specifically as it relates to emerging technologies**

Goal 3: Regulation

Nevada regulations are compatible with and reflective of the current state of practice in engineering and surveying and are in alignment with Nevada's economic development strategy.

Strategies

1. **Maintain currency and applicability of statutes and regulations**
2. Increase relationships with key stakeholders
3. **Increase awareness of new/emerging technologies in relation to statutes and regulations**

Goal 4: Operational Excellence

The Nevada Board's efficient and effective use of technology and streamlined systems, processes and procedures result in high levels of satisfaction by all stakeholders.

Strategies

1. **Maintain effective staff capacity**
2. **Maintain business plan for resource allocation to support board goals**
3. **Maintain effective office and administrative processes**
4. Build a data collection strategy to ensure we have data needed for effective decision making
5. **Increase transparency and communication with stakeholders of board functions, operations, and initiatives**

14.c. NCEES

14.d. Engineering Technology Degrees



EDUCATION

Published — April 26, 2021

BLACK ENGINEERS DISPROPORTIONATELY FACE BARRIERS IN STATES WITH LICENSE RESTRICTIONS

↑ Chayanne Robles, 27, began his engineering career at Onondaga Community College in Syracuse, New York, in 2011. Robles went on to earn a bachelor's in mechanical engineering technology from the Rochester Institute of Technology and now works as an aviation operations engineer in McAllen, Texas. (Courtesy of Onondaga Community College)



Zeina Mohammed

Investigative Reporting Workshop

This story is published in partnership with Investigative Reporting Workshop (<http://investigativereportingworkshop.org/>).

Ida Habtemichael understands she's a statistical rarity.

Black, female mechanical engineers make up less than 2 percent of the engineering workforce. A role model for those seeking STEM careers, she couldn't be prouder of her 14 successful years rising through the senior ranks of Micron Technology. Yet Habtemichael admits she downplays the exact title of her college degree.

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"I don't really identify that I have a bachelor's degree in mechanical engineering technology, because there's a stigma," she said. "So, I don't specify the technology portion of my major. It's almost like a secret."



Ida Habtemichael, 37, is a process engineer at Micron Technology. She lives and works in Manassas, Virginia. (Courtesy of Ida Habtemichael)

She is an equipment engineer, developing robotic monitoring systems. She founded a Black Employee Network 12 years ago that she is still involved in and heads a women's leadership group.

But all that experience and a deep understanding of how to keep mechanical processes efficient are insignificant when it comes to getting a license to work in one-third of the country.

In nine states, engineering technology graduates like Habtemichael are prohibited by law from becoming a licensed professional engineer. In the colloquially named "Hell no!" states of Illinois, Kansas, Kentucky, Michigan, Missouri, South Carolina, Tennessee, Utah and Wyoming, Habtemichael's 4-year engineering technology degree from the Rochester Institute of Technology means nothing.

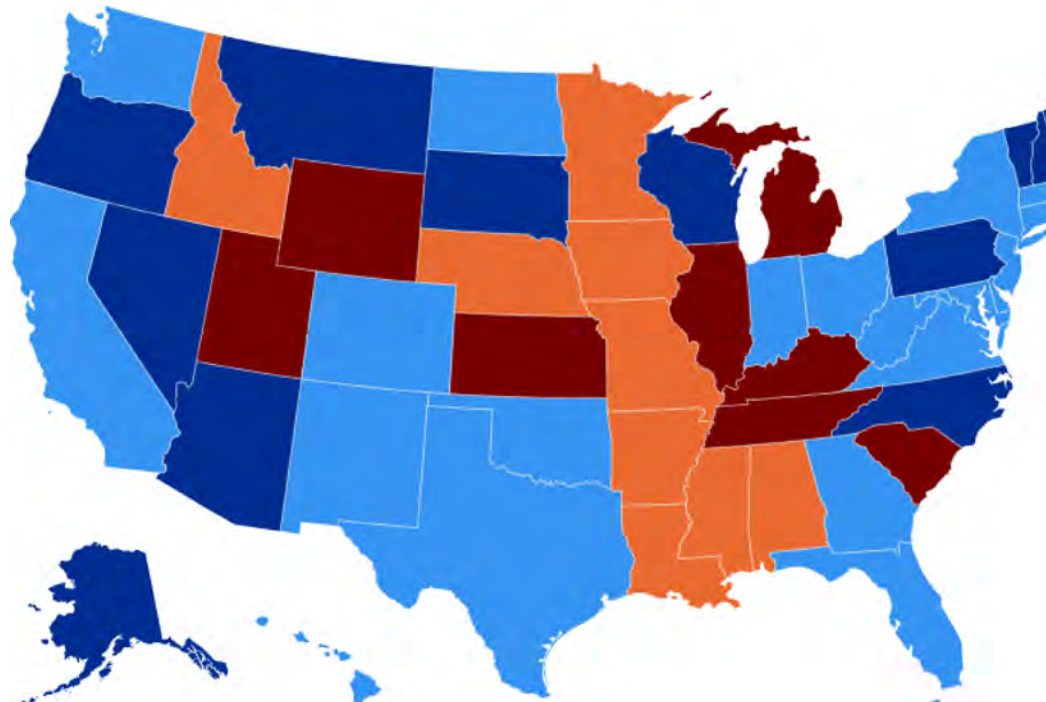
An IRW investigation found an additional nine states in which legislators have created licensing exam barriers so onerous that engineering technology degree graduates are locked out of licensure in nearly every scenario.

In Alabama and Nebraska, for example, Habtemichael would have to go back to school and earn a master's or doctorate in engineering before that state's certifying board *might* allow her to become licensed. Arkansas, Idaho, Iowa, Louisiana, Minnesota, Mississippi and Rhode Island have similar rules requiring additional graduate-level degrees or credits, which create roadblocks for working engineers with technology-stamped degrees to apply for licensure.

Where can graduates sit for the licensing exam?

Professional engineers are licensed by state, each with its own governing board and requirements, which include whether engineering technology graduates are eligible to even sit for the licensing exam. The map color-codes states from least to most restrictive and denotes some that have no restrictions.

Most restrictive More restrictive Less restrictive No restrictions



Map: Kelly Martin/Investigative Reporting Workshop; Research by Martin Gordon • Source: National Society of Professional Engineers 2018-2021 • [Get the data](#) • Created with [Datawrapper](#)

Although closely related, engineering technology and engineering/engineering science are two **separate degree paths** (<https://www.mtu.edu/admissions/programs/majors/differences/>) . Engineering programs focus on conceptual skills and design, while engineering technology programs emphasize practical application.

“I just think it’s absurd,” she said. “If you’re able to do the job correctly, pass the exams and other states accept you, then it makes sense for other states to follow suit.”

This inequity slams the door on many engineers, especially Black engineers, who are **twice as likely** (<https://ira.asee.org/wp-content/uploads/2019/07/2018-Engineering-by-Numbers-Engineering-Statistics-UPDATED-15-July-2019.pdf>) to enroll in engineering technology programs as they are in engineering programs that guarantee a path to licensure. ET programs tend to be more financially accessible and have lower starting math requirements, making them more suitable for academically disadvantaged students.



Robert Weissbach is the chair of the department of Engineering Technology at Indiana University–Purdue University Indianapolis. (Courtesy of Robert Weissbach)

Robert Weissbach, chair of the Engineering Technology department at Indiana University–Purdue University Indianapolis, agreed.

“They’re being held back simply because the degree is a more applied-engineering degree,” he said. “I think that’s inappropriate.”

Weissbach was among a group of university deans who contacted the Investigative Reporting Workshop last fall, saying the reason certain states restrict ET students’ access to licensure may partially be because those students are disproportionately Black.

“Institutional racism is embedded in ... the educational system that inadequately prepares Black students for science and engineering pursuits,” Ron Dempsey, dean of Oakland City University, wrote after researching the subject for his **dissertation** (<https://smartech.gatech.edu/bitstream/handle/1853/60235/DEMPSEY-DISSERTATION-2018.pdf?sequence=1&isAllowed=y>) in 2018 from Georgia Tech. “[It] infects the historical structures of engineering accrediting bodies and results in the creation of parallel but unequal pathways into the field of engineering.”

IRW spent months asking lawmakers, engineers and government agencies to explain why there’s no national standard for the licensure of engineers with four-year engineering technology degrees. The collective answers ranged from institutional racism to protecting the status quo to concerns over educational qualifications.

Engineers who want to become **licensed in a state** (<https://www.nspe.org/resources/licensure/what-pe>) must obtain an accredited engineering degree, pass the Fundamentals of Engineering exam, demonstrate work experience and pass the Principles & Practice of Engineering, or PE, exam.

An IRW breakdown of licensure application rules and laws nationwide show engineering technology degrees are recognized as equivalent to engineering degrees in only 12 states.

There’s no evidence to suggest that students from engineering technology programs are less prepared for the exams or underperform once licensed, Weissbach said.

YOU GET PAID LESS

Licensing is much more than just a matter of prestige; it comes with many **opportunities** (<https://www.nspe.org/resources/licensure/what-pe>) . Only licensed engineers may submit engineering plans to public authorities, work as private practitioners and consulting engineers or apply for certain federal, state and municipal government contracts.

“You get paid less [when you’re unlicensed],” said Carol Lamb, chair of the Engineering Technology Council, a group of academics that oversees the quality of technology programs. “You can’t manage or lead certain projects because you can’t be the lead engineer without a PE license.”

A **survey** (<https://www.asme.org/engineering-topics/articles/technology-and-society/salaries-up-for-mechanical-engineers>) by the American Society of Mechanical Engineers found that licensed mechanical engineers’ annual median income was about \$16,000 higher than that of mechanical engineers without a PE license.

Keith Johnson, who chairs the engineering department at **East Tennessee State University** (<https://www.etsu.edu/equity/staff.php>) , said the salary gap starts to form as some engineers fulfill their four years of work experience to sit for the PE and be licensed. The licensed engineers will have access to more lucrative managerial positions and contracts not open to unlicensed engineers.

Chayanne Robles said he first experienced the pay gap during an internship he did while studying mechanical engineering technology at the Rochester Institute of Technology. Robles, who identifies as multiracial, said he got the same internship as his friend, a white mechanical engineering student.

“You get paid less [when you’re unlicensed]. You can’t manage or lead certain projects because you can’t be the lead engineer without a PE license.”

CAROL LAMB, CHAIR OF THE ENGINEERING TECHNOLOGY COUNCIL

“Based on what I knew from his educational experience and everything that I’ve been through, I felt like we were on a level playing field, but because he had a different degree, he made more money,” Robles said.

Now 27, Robles is a process improvement engineer at the same company, whose name he asked to be omitted. He was hired straight out of school through one of the leadership programs the company has for recent graduates. He qualified for the operations leadership program he wanted, but said he wouldn’t have been able to pursue the engineering leadership program that only accepts engineering students.

He said his position doesn’t require a license, but he’s confident he will pursue licensure because it opens more doors and offers more job security.

“As an employee, it makes you less disposable,” he said.

NOT MUCH CHOICE

Habtemichael was raised by Eritrean immigrant parents in a low-income neighborhood near RIT in New York. Inspired by her father, who worked as a machinist for 30 years, she applied to RIT’s engineering program.

She said the application was a general one and that she didn’t specify engineering or engineering technology because she was not aware of the distinction. When RIT offered her a place as an ET student, she said she was just happy to be accepted.

“To be honest, I don’t feel I had much choice in the beginning, and I didn’t know any different,” she said. “It wasn’t until after that I realized there may be some impact in terms of getting hired.”

East Tennessee State University (<https://www.etsu.edu/equity/staff.php>), which offers programs in both engineering and engineering technology, is about 15 miles from the Virginia border. Johnson, the department chair, said crossing state lines is the only option for his ET students who want to be licensed, many of whom weren’t aware that this would be their post-graduation reality.

“I have a student who went to Virginia to work and eventually get his professional license,” Johnson said. “He didn’t know about [the state restrictions] when he started out and was very disappointed later to realize that the state of Tennessee would not allow him to sit for the PE.”

Related Articles

HEALTH ([HTTPS://PUBLICINTEGRITY.ORG/TOPICS/HEALTH/](https://publicintegrity.org/topics/health/))

‘Unintended consequences’: The rubber industry’s toxic legacy in Akron
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READ ([HTTPS://PUBLICINTEGRITY.ORG/HEALTH/UNINTENDED-CONSEQUENCES-RUBBER-INDUSTRY-TOXIC-LEGACY-IN-AKRON/](https://publicintegrity.org/health/unintended-consequences-rubber-industry-toxic-legacy-in-akron/)) →



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With the stroke of a pen, Biden begins undoing Trump’s deregulation policies
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trump-
deregulation
policies-
executive-
orders/)

Johnson said that, like his student, he himself didn’t fully understand the differences in opportunity for the two disciplines when he switched from engineering to engineering technology in his first year at North Carolina A&T State in 1983.

Johnson had never heard of engineering technology before arriving at college until he was paired with a roommate who was an ET major. While Johnson was taking theoretical classes, his roommate was in the lab.

“Though I did well in theoretical courses, I just had a passion for hands-on work since I grew up on a farm,” Johnson said.

Johnson knew early on that he wanted to teach, so the PE exam was never in his plans. However, he said he does find it interesting that he can head an engineering department and teach engineering in Tennessee but can't sit for the license.

"You have people who are training others to be their supervisors," he said.

He also evaluates engineering programs around the country for the Accreditation Board for Engineering and Technology and said he's found that many engineering departments now incorporate more laboratory experience.

"I'm sure many wouldn't appreciate this statement, but it looks to me like they are starting to model after engineering technology," Johnson said.

PARALLEL BUT UNEQUAL PATHWAYS

American Society for Engineering Education (<https://ira.asee.org/wp-content/uploads/2019/07/2018-Engineering-by-Numbers-Engineering-Statistics-UPDATED-15-July-2019.pdf>) data shows that racial minorities continue to be underrepresented in engineering education. In 2018, just 4.6% of engineering degrees were earned by Black students compared with 11.4% by Hispanic students and 61.5% by white students.

Although still underrepresented, Black students occupy a larger space in engineering technology education. In 2018, 8% of engineering technology degrees were earned by Black students, 9.4% by Hispanic students and 70.7% by white students.

When Robles started at Onondaga Community College in Syracuse, New York, in 2011, his plan was to graduate as quickly as possible and get a job. He chose to study mechanical engineering technology not only because he was interested in practical experience, but also because the engineering program had a higher math requirement that would have meant taking additional courses to catch up.

Racial gaps in the quality of K-12 education are also a factor, said Oakland City College's Dempsey. Engineering programs require students to take calculus in their first year, and students from disadvantaged backgrounds are not adequately prepared, he said.

"If you struggle with math, engineering technology is going to be better," Dempsey said. "Not only because it may not require a high level [of math skills], but because it also embeds math in the application in the course."

"Prior to integration, the universities in the South and elsewhere did not allow for African Americans to attend and get engineering degrees."

ROBERT WEISSBACH, CHAIR OF THE ENGINEERING TECHNOLOGY DEPARTMENT AT INDIANA UNIVERSITY–PURDUE UNIVERSITY INDIANAPOLIS

Robles went on to graduate from RIT in 2016, becoming the first person in his family to earn a bachelor's degree.

Another major reason Black students are twice as likely to study engineering technology is because historically Black colleges and universities generally lack accredited engineering departments.

"Prior to integration, the universities in the South and elsewhere did not allow for African Americans to attend and get engineering degrees," Weissbach of Indiana University-Purdue University said. "So basically HBCUs had engineering technology programs that were still providing preparation for an engineering career, but those students were not allowed to sit for licensure."

During the 1960s, Howard University was the only Historically Black College and University with an accredited engineering department. A decade later, the **Accreditation Board for Engineering and Technology** (<https://www.abet.org>) accredited six more HBCU programs, and Black engineers were finally allowed to gain professional licensing.

Over the past 60 years, the number of accredited engineering programs has **increased** (<https://hbculifestyle.com/abet-accredited-engineering/>) to 16 of the 107 HBCUs in the U.S.

NATIONAL ASSOCIATION BREAKS ITS SILENCE

The National Society of Professional Engineers has long been regarded as part of the problem by those advocating for diversity in the field. In a 1996 **article** (<https://peer.asee.org/who-speaks-for-engineering-technology-the-role-of-the-engineering-technology-council.pdf>) , ET educators wrote that NSPE is the most influential professional society and that it uses that power to maintain the status quo.

“Historically, the NSPE has been no great friend of engineering technology,” the authors **wrote** (<https://peer.asee.org/who-speaks-for-engineering-technology-the-role-of-the-engineering-technology-council.pdf>) .

And Weissbach said that NSPE “unfortunately ... hasn’t taken steps to actually address educational diversity. It wants everything to be done one way, and any variation from that one way is, if not rejected, at least frowned upon.”

NSPE’s leadership addressed the issue for the first time in a recent interview with IRW.

“NSPE supports a path to licensure [for all engineering technology students], but it may be a different path than somebody who gets an engineering degree because the two degrees are different,” said organization President Tricia Hartley.

The national association doesn’t dispute that regulations are a disproportionate barrier for Black engineers, Hartley said, adding that the organization is still in “learning mode” to understand the scope of the issue.

Jacquelyn Brooks, chair of NSPE’s Diversity, Equity and Inclusion Advisory Committee, said the organization is working to collect racial demographic data on licensed engineers in the U.S.

Brooks, who is Black, said she felt for a long time that NSPE’s commitment to diversity was just PR, but that the creation of her committee and other recent changes make her feel that the organization is “on the right track.”

NEVADA LOOKS TO THE FUTURE, SOUTH CAROLINA RETURNS TO THE PAST

The Nevada Board of Professional Engineers and Land Surveyors recently voted unanimously to treat engineer degree-holders equally during the licensing process. Engineering techs are no longer required to have additional experience before taking the PE exam.

Executive Director Patty Mamola said the board took action after discussing how the additional requirements were affecting engineers of color as well as other groups.

“Generally, the type of students attracted to ET degrees come from disadvantaged communities. Race, rural areas versus cities, and money are factors for those likely to pursue ET degrees,” Mamola told IRW. “I put it on the agenda and am happy with the outcome of what the board chose to do.”

Mamola is no stranger to the politics of licensing engineers. She was the first woman to lead NCEES, the National Council of Examiners for Engineering and Surveying.

“The fight against changing (treatment of ET degree-holders) is always ‘public safety.’ That is the shield they hide behind. It’s gate-keeping instead of gate-tending mentality,” Mamola said. “One of my goals at NCEES was to have portable licenses. For 100 years, engineers have been talking about that and still don’t have it. We can keep talking about mobility, but we also need to make changes to actually have mobility.”

Mamola emphasized that it’s not the accredited degree that earns engineers the right to work; it’s their ability to pass the PE exam, calling it “the great equalizer.”

In South Carolina, politicians moved in the opposite direction, reversing a law that had allowed some engineering technology degree holders to sit for professional exams.

The change to SC Code **40-22-222** (<https://www.scstatehouse.gov/code/t40c022.php>) went into effect June 30, 2020.

Although the new law doesn’t apply to engineers who were licensed before that date, the change concerned stakeholder groups, said John Lane, a director at the South Carolina **Commission on Higher Education** (<https://www.che.sc.gov/AboutCHE/WhoWeAre/DivisionDescriptions/AcademicAffairsDivisionDescription.aspx>) .



John Lane is the director of academic affairs at the South Carolina Commission on Higher Education. (Courtesy of John Lane)

He said the main concerns are that Black students will be held back from opportunities and move to other states to get licensed, leading to a “brain drain” of potential engineers.

“This is not meant to close doors of opportunity,” Lane said. “It’s not meant for minorities to be casualties of policy change.”

State Sen. Mia McLeod sponsored a **bill** (<https://www.billtrack50.com/BillDetail/1103851>) in 2019 that would have formed a committee to reconsider the restrictions on engineering technology students and extend licensing opportunities to them until 2025. The measure failed and the senator’s office said she had no plans to pursue the issue further.

“There’s still interest in very important places,” Lane said. “The intent of a state system is to provide an effective and efficient ecosystem for the state’s students, and we’re always looking for leak points.”

ADDING TO THE BIAS

Habtemichael, who also works as a recruiter, said the bias against engineering technology often makes it difficult for recruiters to convince hiring managers to give ET degree-holders a chance.

She said this disproportionately affects minority candidates who are often already disadvantaged, especially earlier in their careers.

“Black & Latino students already have a bias against them coming out of the university,” Habtemichael said. “Having an identifiably nonwhite name on your resume already adds to the bias. Add an engineering technology degree, and it detracts from their chance even more.”

Zeina Mohammed is a graduate fellow at the Investigative Reporting Workshop.

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14.e. Digital Signatures

15. Committee Reports

15.a. Administrative
Procedures Oversight
Committee

15.a.i. Updated Financial Policy

Nevada State Board of Professional Engineers and Land Surveyors

Policy No. 002 – Finances and Budget Reserves

Adopted: May 10, 2018

Latest Revision: March 30, 2021

Sunset Date: TBD

Contact: Patty Mamola, Executive Director

Discussion: Because the board is a self-funded agency and the general state fund is unavailable to this board, the agency must exercise adequate controls to provide accurate and complete financial data for internal and external control. By statute, the board is self-sufficient and be able to must cover operational costs and any costs for defending or prosecuting legal cases. Also, by statute, this board may sue and be sued, so funds must be available to cover costs for unanticipated, but potential lawsuits or emergency situations. Such emergency situations might include natural disasters, property damage, or other unplanned emergency.

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Relevant Nevada Revised Statute and Nevada Administrative Code: NRS 625.150 and 622.234.

Policy Statement:

Bank Accounts

All NVBPELS bank accounts will be in Nevada banks. NVBPELS will maintain two checking accounts—“petty cash” and “regular accounts”.

The petty cash account will be maintained with a maximum balance of \$2,500. This account may be used for incidental expenses to the administration of the board office, such as postage, purchase of supplies and food for board meetings, shipping costs that require immediate payment. One signature for checks issued on this account will be sufficient. The maximum amount for a single check drawn on this account is \$1500.

Reimbursement of the petty cash account will be made from the regular checking account periodically to replenish the account balance to the maximum balance of \$2,500.

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All other expenses are paid from the regular checking account. Two signatures will be required for all checks issued against this account, the executive director and that of the board chair or other designated board member.

Operating Expenses

Operating expenses are paid on a regular schedule, at least twice a month. Operating expenses are paid from NVBPEL’s regular bank account. The regular bank account requires two authorized signatures, typically the executive director and board chair. A second board member will review all expenditures monthly and sign an attestation, attesting that two board members have reviewed all

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expenditures including related supporting documentation. At each regular board meeting, the board will review monthly detailed financial reports.

Purchases for capital items, budgeted or unbudgeted, must be authorized by the board at a regularly scheduled meeting.

Reserves

It is the policy of NVBPELS ~~will~~to hold in reserves the equivalent of 18 months of its total operating expenses. Having this amount in reserve does not limit the board's ability to invest this reserve amount; knowing the amount may be retrieved in the event it is needed subject to the financial institution's penalties in place on such investment(s).

In addition, the board may, from time to time, plan to make a future purchase that may involve saving money for that purchase. This policy does not preclude having a larger reserve amount on hand for making such a purchase.

~~The board~~NVBPELS may invest budget reserves according to ~~our~~ NVBPEL's approved ~~board~~ financial investment strategy. All investment decisions shall be made by majority vote of the board. Funds designated for investment by ~~the board~~ NVBPELS may be reinvested into the same investment vehicle at maturity by the agency Executive Director, unless otherwise directed by majority vote of the board.

NVBPELS is committed to developing business practices and administrative processes in support of this policy.

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15.a.ii. Fiscal Year 2021- 2022 Budget

**Narrative for Proposed Budget Fiscal Year July 1, 2021 to June 30, 2022
March 30, 2021**

Revenues are increased to account for continued/sustained increase in application fees and license renewals. Prior year budget had reduced revenue projections due to anticipated COVID-19 impacts. However, there were no discernible COVID-19 impacts and the prior year actual revenues have outperformed budget projections. Therefore, we anticipate finishing the 2020-2021 budget year about 11% over budget and are proposing the 2021-2022 budget for revenues be set at the anticipated actual budget for 2020-2021, **\$924,300**.

Expenses have been budgeted conservatively to account for current COVID-19 limitations and reflect typical/actual annual costs for operations resulting in nearly a 32% reduction in budget. Expenses are proposed to nearly equal revenues, creating a near-net-zero budget of **\$923,992**.

Deferred expenses are included in the budget to address items that have been identified in the NVBPELS Business Plan. The Business Plan was created to identify amount of reserve monies needed to address deferred operational expenses. Proposed budgeted deferred expenses total **\$259,217** and include:

- \$39,200 for legal and government liaison fees associated with continued work on catching up on updating regulations and statutes
- \$35,000 for updating website content and structure to change focus to customer-facing/user interface
- \$75,000 for licensing database upgrades and implementation
- \$10,000 for contract labor to assist with scanning compliance files to transition from paper to e-files
- \$3,500 for exploring moving to verified digital signatures
- \$96,825 (\$75k salary + burden) for an additional staff member for realignment of duties to allow a current staff member to focus 75% of their work hours on deferred items in NVBPELS Business Plan

Ordinary Income/Expense	APPROVED BUDGET		ACTUAL 12/31/2020		PROPOSED BUDGET	
	Jul '20 - Jun 21		Jul '20 - Jun 21		Jul '21 - Jun 22	
	rev w/ app fee of \$25 (INITIAL) & \$125 (COMITY) some deferred items removed + PDH Event, late fees, and online convenience fees removed					
Income						
4000 · REVENUE						
4201 · Application Fees						
4002 · PE Exam Application		0.00	0.00			
4004 · PLS Exam Application		0.00	0.00			
4202 · PE Comity Application		100,000.00	54,600.00	54.6%	115,000.00	based on last 2 quarters of 2020
4203 · PLS Comity Application		2,375.00	2,150.00	90.5%	3,000.00	
4204 · PE Initial License Application		3,975.00	1,750.00	44.0%	3,800.00	
4205 · PLS Initial License Application		50.00	25.00	50.0%	50.00	
4206 · PE Reinstatement Application		10,050.00	7,000.00	69.7%	12,600.00	based on last 2 quarters of 2020
4207 · PLS Reinstatement Application		900.00	200.00	22.2%	400.00	
4208 · EI Certification Application		7,450.00	3,800.00	51.0%	7,450.00	
4209 · LSI Certification Application		100.00	0.00		100.00	
Total 4201 · Application Fees		124,900.00			142,400.00	based on last 2 quarters of 2020
4250 · Renewals & Exam Fees						
4251 · PE/PLS Renewals		551,500.00	338,400.00	61.4%	630,000.00	based on last 2 quarters of 2020
4252 · Renewal Late Fees		5,000.00	100.00	2.0%	0.00	
4253 · PE License Fees		50,750.00	30,820.00	60.7%	58,000.00	based on last 2 quarters of 2020
4254 · PLS License Fees		1,000.00	650.00	65.0%	1,000.00	
4255 · NV Specific Exam Fees		1,800.00	1,300.00	72.2%	2,000.00	
Total 4250 · Renewals & Exam Fees		610,050.00			691,000.00	
4300 · Other Revenue						
4301 · Replacement Certificate/Pocket Card		600.00	130.00	21.7%	300.00	
4302 · Stamp Fees		0.00	380.30		0.00	
4303 · Interest Income		20,000.00	7,357.66	36.8%	20,000.00	
4304 · Discipline Pd to NV Gen Fund		0.00	0.00		0.00	
4305 · Investigative Cost Recovery		7,000.00	1,476.50	21.1%	0.00	
4306 · Miscellaneous		0.00	0.00		0.00	
4307 · Firm Registration		65,400.00	50,925.00	77.9%	70,000.00	based on last 2 quarters of 2020
4308 · Business Name Request		2,000.00	1,250.00	62.5%	0.00	
4310 · PDH Event Income		0.00	0.00		0.00	
4311 · Waiver/Document Fees		600.00	400.00	66.7%	600.00	
4312 · Online Convenience Fees		0.00	678.80		0.00	
Total 4300 · Other Revenue		95,600.00			90,900.00	
Total 4000 · REVENUE		830,550.00				
Total Income		830,550.00				
Gross Profit		830,550.00			924,300.00	
Expense						
5100 · PAYROLL EXPENSES						
5101 · Accrued Benefits		5,313.86				
5102 · Employee Health Insurance		64,000.00	38,325.11	59.9%		
5103 · Employee IRA/SEP		15,000.00	5,495.17	36.6%		
5105 · Payroll Service Fees		2,000.00	798.84	39.9%		
5106 · Payroll Taxes		0.00				
5107 · Salaries		415,607.28	203,955.08	49.1%		
					75,000.00	
5108 · Board Salaries		16,000.00	2,200.00	13.8%		
Total 5100 · PAYROLL EXPENSES		517,921.14				

5110 · PAYROLL TAXES							
5111 · FICA		24,592.62	12,168.67	49.5%			
5113 · Medicare		5,879.34	2,957.65	50.3%			
5114 · Modified Business Tax		2,200.00	1,050.02	47.7%			
5115 · SDI		0.00	0.00				
5116 · SUINV		2,000.00	108.29	5.4%			
Total 5110 · PAYROLL TAXES		34,671.96					
							21,825.00
		552,593.10					560,000.00
6001 · OPERATING EXPENSES							
Non State Owned Office Bldg.							
6002 · Rent		82,429.26	47,729.41	57.9%		86,500.00	
6003 · Leasehold Improvements							
6003.1 · Deferred Exp-RNO/LAS Office		0.00					
6003 · Leasehold Improvements - Other		0.00					
Total 6003 · Leasehold Improvements		0.00				0.00	
6004 · Utilities		1,800.00	744.38	41.4%		1,600.00	
6005 · Telephone/Internet		10,000.00	2,931.17	29.3%		6,000.00	
6005.5 · Janitorial		1,200.00	600.00	50.0%		600.00	
Total Non State Owned Office Bldg.		95,429.26				94,700.00	
6006 · Office Supplies		8,000.00	5,257.28	65.7%		6,000.00	
6007 · Equipment/Furniture							
6008 · Furniture							
6008.1 · Deferred Exp-Furniture		0.00					
6008 · Furniture - Other		0.00					
Total 6008 · Furniture		0.00					
6009 · Maintenance		0.00					
6010 · Equipment Purchases		0.00	3,539.65				
6011 · Equipment Leasing		5,000.00	2,225.30	44.5%		5,000.00	
6012 · Software							
6012.1 · Deferred Exp-Softward Upgrades		0.00					
6012.5 · Software		2,000.00	2,815.50	140.8%		3,000.00	
Total 6012 · Software		2,000.00				3,000.00	
6015 · Website Hosting		600.00	356.00	59.3%		15,000.00	
Total 6007 · Equipment/Furniture		7,600.00					
6101 · Insurance							
6102 Workers Comp		4,800.00	2,412.66	50.3%			
6103 · General Liability		1,198.82	1,196.72	99.8%			
6104 · Office Contents		75.00	68.64	91.5%			
Total 6101 · Insurance		6,073.82				6,100.00	
6201 · Postage							
6202 · Postage		7,000.00	9,548.45	136.4%		3,000.00	
NEW Account E-Postage			1,035.00			3,000.00	
6205 · Postage Renewals		0.00				2,000.00	
Total 6201 · Postage		7,000.00				8,000.00	
6301 · Board Meetings							
6302 · Travel - Out of State		2,500.00	0.00			0.00	
6303 · Travel - In State		33,000.00	1,294.44	3.9%		15,000.00	
6304 · Board Meeting Expenses		8,000.00	3,492.64	43.7%		4,000.00	
Total 6301 · Board Meetings		43,500.00				19,000.00	

burden = approx 30% off salary

incr assuming health insurance incr

adjusted to include incr

reduced billing audit

one-off charges inflated half-year
 reduced to actual average

possible 5k for monitors

actual needs to be determined

1.2k p/m for new inLumon platform

taking into account credits

6401 · Printing						
6402 · Printing General		4,000.00	5,803.55	145.1%		4,000.00
6404 · Printing NRS/NAC, Blue Book		2,500.00	0.00			2,500.00
Total 6401 · Printing		6,500.00				6,500.00
6501 · Professional Services						
6502 · Legal						
6503 · Board Meetings		40,000.00	14,763.50	36.9%		30,000.00
6504 · Regulations/Legislation						
6504.1 · Deferred Exp-Regs/Legislation		0.00	0.00			20,000.00
6504.5 · Regulations/Legislation		10,000.00	3,292.00	32.9%		5,000.00
Total 6504 · Regulations/Legislation		10,000.00				
6505 · Discipline		45,000.00	5,245.00	11.7%		35,000.00
Total 6502 · Legal		95,000.00				70,000.00
6508 · Accounting Fees		15,000.00	13,051.00	87.0%		13,052.00
6509 · Government Liaison Services						
6509.1 · Def Exp-Government Liaison Services		18,000.00	0.00			19,200.00
6509.5 · Government Liaison Services		9,600.00	9,328.00	97.2%		0.00
Total 6509 · Government Liaison Services		27,600.00				
6510 · Database/Website Design						
6510.1 · Deferred Exp-Website Update		0.00	1,850.00			35,000.00
6510.2 · Deferred Exp-Database Update		27,500.00	7,401.80	26.9%		75,000.00
6510.5 · Database/Website Design		29,340.00	16,500.00	56.2%		12,500.00
Total 6510 · Database/Website Design		56,840.00				12,500.00
6511 · Public Outreach (Communications)		0.00	3,000.00			17,500.00
6514 · Contract Labor						
6514.1 · Def Exp-Contract Labor		0.00	145.20			10,000.00
6514.5 · Contract Labor		5,000.00	1,043.65	20.9%		
Total 6514 · Contract Labor		5,000.00				
6515 · IT Support		11,640.00	5,802.00	49.8%		11,640.00
Total 6501 · Professional Services		211,080.00				
6550 · Professional Service Fees		0.00				
6601 · Program Services						
6604 · NCEES						
6605 · Dues		6,500.00	0.00			6,500.00
6606 · Registration		2,500.00	0.00			2,500.00
6607 · Travel		12,000.00	0.00			15,000.00
Total 6604 · NCEES		21,000.00				24,000.00
6608 · Stamp Purchases		0.00	332.88			
6609 · Investigations		2,500.00	1,198.90	48.0%		0.00
6610 · State Specific Exam		2,500.00	0.00			2,500.00
6615 · Bank Fees		0.00	0.00			
6616 · Merchant Services Fees		27,500.00	13,825.55	50.3%		27,500.00
6630 · LAS Office Support		12,000.00	0.00			10,000.00
6640 · Workshops						
6640.1 · Deferred Exp-Digital Signature		0.00				3,500.00
6640.5 · Workshops		3,500.00	0.00			
Total 6601 · Program Services		69,000.00				
6700 · Other						
6701 · PDH Event Expense						
6701.1 · Deferred Exp-PDH Event		0.00	0.00			

inflated by one-off charges

Total 6701 · PDH Event Expense		0.00				
6702 · Discipline Pd to NV Gen Fund		0.00	0.00			0.00
6704 · State Administrative Fees						
6705 · Attorney General		2,000.00	169.80		8.5%	1,000.00
6706 · Benefit Services Fund		0.00	0.00			
6709 · Email - EITS		6,000.00	3,493.84		58.2%	7,000.00
6710 · Leg. Counsel Bureau		1,000.00	0.00			1,000.00
6704 · State Administrative Fees - Other		0.00	0.00			
Total 6704 · State Administrative Fees		9,000.00				9,000.00
6720 · Miscellaneous		2,500.00	0.00			0.00
Total 6700 · Other		11,500.00				
6801 · Training & Conferences						
6802 · Travel - Out of State		10,000.00	0.00			
6803 · Travel - In State		1,000.00	0.00			
6804 · Registration		3,000.00	14.99		0.5%	3,000.00
Total 6801 · Training & Conferences		14,000.00				3,000.00
6900 · Other Expenses		0.00	0.00			
Total 6001 · OPERATING EXPENSES		479,683.08				363,992.00
Total Expense		1,032,276.18				923,992.00
Net Ordinary Income		-201,726.18				
Net Income		-201,726.18				

	363,992.00	Operating Expense
	560,000.00	Payroll + Taxes
	923,992.00	Total Expense
		Total Income
	308.00	NET Income
	162,700.00	Deferred Operating Expenses
	96,825.00	Deferred Payroll Expenses
	-259,217.00	

15.a.iii. Executive
Director Work
Performance and Salary

GOALS AND PERFORMANCE EVALUATION

Name:	Patty Mamola	Evaluation period:	May 2020 – April 2021
Title:	Executive Director		

GOALS, OBJECTIVES, ACHIEVEMENTS and ACCOMPLISHMENTS *(COMPLETED BY EXECUTIVE DIRECTOR)*

• Outreach—

Engaged with legislators during 2021 legislative session working toward successful update of NRS 625. Created collateral piece that was used for one-on-one meetings with legislators. Implemented and maintained positive presence on social media platforms in support of public communications. Served as a speaker for various events—UNR, APWA, NCEES, NALS, SEASNS, ECL-USA—published newsletter a minimum of three times annually as of 2016, moved website to new platform and updated contents.

- Involve board lobbyist with legislators on an ongoing basis
 - **Board lobbyist—contract updated to assist with legislator relationships and regulation updates during 2021 legislative session**
 - **Coordinated with PUCNV and key stakeholders to remove statutory license exemption for gas utility companies in response to NTSB recommendation**
 - **Secured bill sponsor for NVBPELS bill draft, working toward successful bill passage to update NRS 625**
- Increase visibility of the board
 - **Continued hosting Digital Signature Task Force meetings resulting in creation of Digital Signature Electronic Submittal Guide**
 - **Maintained positive presence on social media platforms**
 - **Actively engaged with International Engineering Alliance and Engineering Change Lab-USA enabling Nevada to have a voice nationally and internationally as it relates to licensure and mobility**
 - **Spearheaded and regularly participate in Soroptimist STEM outreach at an at-risk elementary school**
 - **Maintain Las Vegas office and staff office as necessary while still complying with Governor directives related to COVID-19**
- Increase modes of delivering key messages and frequency of delivery
 - **Speak at professional society meetings on key board issues**
 - **Coordinate speakers for professional society events and Nevada universities**
 - **Speak at NCEES meetings**
 - **Update website with key messages**
 - **Maintain frequency of minimum two times per year publishing of newsletter**
 - **Maintain a positive presence on social media platforms—LinkedIn, Twitter, Facebook, website Blog**

• Licensure—

Continued outreach to university students, increasing student knowledge of engineering/land surveying. Worked with community group, Soroptimist to create and deliver a STEM project to an at-risk elementary school to encourage girls to pursue engineering/land surveying. Implemented new processes to speed up process of comity licensure, facilitated board discussions to encourage options to meet NRS land surveyor education requirements. Updated 33 regulations to reflect current practices.

- Increase/stress importance of licensure to university students
 - **Annually meeting with UNR civil engineering capstone class, this past year added mining engineering capstone class, to discuss licensure**
 - **Outreach to UNR engineering deans for invite to discuss licensure with other engineering departments**
 - **Outreach to UNLV for opportunities to speak to engineering capstone classes**
- Increase public knowledge about value of licensure
 - **Maintained social media program to increase public awareness of NVBPELS and importance of licensure**

- Increase kids' knowledge of what engineers/land surveyors do
 - **Soroptimist—continued with STEM project and partnering with at risk elementary school for the 2018/2019 and 2019/2020 school year, focusing on coding and robotics**
- Speed up process of comity licensure
 - **Further efficiencies gained in comity licensure resulting from improving administrative processes, reducing from an average of 10 days to five days. Facilitating further efficiencies in enabling staff to approve/license MLE/MLS comity applications. Regulations adopted to codify process**
- Provide options to meet land surveyor education requirements
 - **Continued working with surveyor board members to be as flexible as possible within current law to license initial/comity applicants**

• **Regulation—**

Continue to update regulations and make reflective of current practice in alignment with NV economic strategy—Completed comprehensive review resulting in proposed update of 33 regulations—25 NAC's successfully updated, 8 NAC's still in process of being updated (currently at LCB for language drafting). Currently working on comprehensive review/update of regulations related to PLS Standards of Practice.

- Decrease outdated regulations and increase applicability of regulations
 - **Regulation update—NAC updates successfully completed working toward adoption by the Legislative Counsel Bureau. Considering further changes that may be needed—reviewing regulations for further updates**
- Increase relationships with key stakeholders
 - **PAL Committee—continued engagement and sharing of board activities, maintain PAL calendar on NVBPELS website, and partner with stakeholders as appropriate to host events, or further NVBPELS goals**
 - **Board government liaison—Retained for work leading up to legislative session, 2021 legislative session, and 6-months following session to assist with regulation updates and NRS bill drafts**
 - **Established and maintaining presence on social media platforms**
 - **NCEES—serve on MBA Committee and Records Taskforce to support efforts to improve national/international portability of licenses**
- Increase awareness of new/emerging technologies
 - **Continue as a core group member of ECL-USA, a group that explores the future of engineering, engineering licensure, and emerging technologies**
 - **Speaker at professional organization meetings and NCEES meetings to increase awareness**
 - **Share knowledge/information with board members and stakeholders as appropriate**

• **Operational Excellence—**

Staffing LAS office as necessary, downsized/updated RNO office, staff cross-training/stabilized, retained social media consultant, completed conversion to e-files/eliminated paper files. Created business plan/budget for new initiatives/board improvements/updates, updating/moving to new licensing platform, continuing 2nd phase of website update, continuous review of office procedures and processes for improvements.

- Increase staff capacity
 - **Temp services—temporary staff retained as necessary to assist with peak workloads.**
 - **Cross training staff to ensure continued efficiency when positions are vacant or have extended leave**
 - **Evaluate staff capabilities and operational needs to make adjustments as necessary to optimize resources and expenditures**
 - **Evaluate processes to identify areas to streamline—continuous evaluation of phone calls and emails to assess where improvements are needed to reduce staff response time and make improvements in processes/systems**
- Create business plan/budget to fund new initiatives, board improvements, and updating of systems

- **Upgrading database platform for applications and licensing in process, system will include a dashboard for licensees to self-serve and will improve public access to public information and improve staff usability of system**
- **Business plan—draft plan presented to the board at its May 10, 2018 meeting. Budget for 2020/2021 and proposed budget for 2021/2022 reflected funding deferred items described in Business Plan. Board kept informed of Business Plan and status of action items**
- Update all office and administrative processes
 - **Eliminate Paper—all paper licensee files have been scanned and checked for completeness and paper records have been disposed**
 - **Continued Automation of Processes—processes to automate have been automated, working with current database vendor to migrate database to new platform and provide applicant/licensee dashboard. Researching options to further improve database system and user experience**
 - **Evaluating website to identify customer-facing improvements needed to gain added operational benefits**
 - **Employee Performance Evaluations—staff evaluations are completed periodically as needed and on anniversary dates of employment**
 - **Evaluation of office and administrative processes—continuous evaluation of systems to identify needed improvements and development of plan/s to address. Accounting system audited and improvements made to update accounts and identify deferred budget expenses. Administrative processes are continuously evaluated to identify necessary improvements and updates to the system.**
- Build a data collection strategy to ensure we have data needed for effective decision making
 - **Website—with implementation of social media platforms, analytics have been added to website and data is being collected and evaluated to identify needed improvements**
 - **New platform for licensing software system is being evaluated for data management improvements**

OTHER RESPONSIBILITIES *(completed by Executive Director)*

- Hired and retaining staff with higher level capabilities and varied skill levels. Creates work efficiencies, increases staff capacities, and improves service. Creates opportunities to make continuous improvements to operations, reduce costs, and enables achievement of goals/objectives of NVBPELS's Strategic Plan and Business Plan.
- Administrative processes continually reviewed to improve and expedite licensure. Comity licensure reduced from over 75 days to average of 5 days or less.
- Consistently prepare and distribute to board members, board packet 2-weeks prior to board meetings.
- Completed comprehensive review of laws and regulations resulting in the update of 33 regulations (25 have been adopted as of December 14, 2020. Currently reviewing PLS Standards of Practice regulation for updates.
- Continued positive interaction with Nevada legislative sunset committee. Actively participating with Governor's OWINN occupational licensure study.

EVALUATION *(completed by reviewer)*

STRENGTHS AND AREAS FOR DEVELOPMENT

GOALS AND OBJECTIVES FOR NEXT EVALUATION PERIOD

EXECUTIVE DIRECTOR SIGNATURE

BOARD CHAIR SIGNATURE

Date

Date

15.b. Legislative Committee

15.c. Professional
Association Liaison
Committee

15.d. Public Outreach Committee

15.e. PLS Standards of Practice Subcommittee

15.f. Committee for
Planning and Hosting of
2022 NCEES Western
Zone Meeting

16. Non-Appearence
Application for
Endorsement Licensure
for Sara Sharif,
Biomedical Engineer

MEMORANDUM

Nevada Board of Professional Engineers and Land Surveyors

To: Board Members
From: Patty Mamola, Executive Director
Date: May 5, 2021
Subject: Sara Sharif Comity/Endorsement Application for Licensure as a Biomedical Engineer

Background

[NRS 625.050](#) defines the practice of engineering as any professional service which involves the application of engineering principles and data where public health, safety welfare is a concern. It is a broad definition and the only exemption in statute is for federal employees and certain employees of utility companies.

[NRS 625.025](#) defines "Discipline" as a recognized field of study in professional engineering as determined by the board.

[NRS 625.175](#) gives the board the authority to define scope of disciplines by regulation for which licensure is required.

[NAC 625.220](#) provides the list of disciplines that an applicant may apply for licensure, included in that list is "any other discipline of engineering which the board deems appropriate".

Discussion

On April 23, 2021, the board received an endorsement/comity application from Sara Sharif, an Ontario, Canada PEng, license #1001764590, with a degree in biomedical engineering and work experience specifically in biomedical engineering. The applicant is seeking licensure by endorsement as a biomedical engineer in Nevada.

Proposed Action


The board to consider and possibly act on Ms Sharif's comity/endorsement application for licensure as a biomedical engineer pursuant to NAC 625.220(3)(q).

SARA SALARI SHARIF (22-028-35)

All work experience reviewed by two licensed professionals

DISCIPLINE: BIOMEDICAL ENGINEERING

GENERAL


 Applying To
Nevada

Application Type
Initial - PE

Application Date
04/23/2021

Citizenship
Canada


SUMMARY

 Engineering Experience
after EAC degree

Total Engineering
Experience
8 years, 5 months

Experience under licensed
engineer
None

Disciplinary Action
None reported



EDUCATION

 Bachelors in Biomedical Engineering
Ajman University
January 2000–January 2006

Masters in Management Sciences
University of Waterloo
January 2008–June 2010


REFERENCES



LICENSES

 Additional Licenses
None

EXAMS

 Waived Fundamentals of Engineering (FE)
Nevada
April 2021

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

Canadian.

IntPE/APEC: MR-00327 Issued: 06/2020

PEng: 100176459 (Ontario) Exp: 05/31/2022

SARA SALARI SHARIF (22-028-35)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

CCE Medical
Ontario (Canada)
Sales and Service Engineer
February 2006—March 2008

Verified by
Sara Salari Sharif (Self)

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



TASKS

- Gained experience with national and international sales and equipment support
- Prepared technical service contract proposals for clinics, vets and hospitals in Ontario
- Set up systems, including the service billing rates, technical evaluations, and parts database
- Performed software and hardware upgrades on ultrasound equipment within specified frames
- Designed and created ultrasound transducer database to manage inventory, and service history



REPRESENTATIVE PROJECTS

Ultrasound Installation and repair at St Michael Hospital:

I was involved in the installation, performing repairs, troubleshooting, image quality, providing technical support during commissioning and acceptance of new IU22 ultrasound devices, analyzing problem, and preventative maintenance of the ultrasound systems.

- The installation process included: checking electrical safety, checking leakage current, testing the operational functions, and training the users and local technical personnel. I used power electronics and electrical safety knowledge.
- I performed mostly board base repairs, but sometimes traced the fault on the circuit boards, using oscilloscope and signal generators. I replaced defective components on the circuit boards to save cost.

Modification of ultrasound equipment power supply for Europe:

I was involved in supporting the sales team by modifying power supplies, boards, systems, accessories, and monitors to work with the 110/120v voltage in North America or 220v voltage in Europe. This process included checking electrical safety, checking leakage current, and testing the operation of the equipment. After the modification I checked electrical safety, leakage current, testing the operation of the equipment, running diagnostic tests, and calibration on the ultrasound equipment.

Ultrasound Quality check:

I wrote the procedure for physical inspection and evaluating the image quality of the system and probes using an ultrasound phantom.

During acceptance:

- I provided technical assistance during acceptance. I worked with a group of radiologists, and sonographers to resolve problems as they were discovered. This led to faster installations and ensured that the equipment was performing to specification when the installation was complete.
- During commissioning:
 - I assisted with establishing the protocol for ultrasound equipment and if the vendor provided protocols to be used, I assisted the sonographers to ensure that the image quality was optimized with those protocols.

SARA SALARI SHARIF (22-028-35)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

University Health Network
Ontario (Canada)
Clinical Engineer/Biomedical Engineer
March 2008—November 2015

Verified by
Murray Laverne Rice
Murray.rice@uhn.ca

Experience Summary
Full-Time
Engineering: 7 years, 8 months
Experience under licensed engineer:
None

TASKS

During my 7.8 years of experience at University Health Network, I had various roles such as Biomedical Engineer, Clinical Engineer, Project Manager and Acting Clinical Engineer Manager. Majority of my work experience was focused on evaluating and comparing different types of ultrasound equipment, and other imaging equipment such as CT, Fluoroscopy, X-ray equipment. I was responsible to gather data and provide reports on: 1. Efficacy 2. Performance (User performance (monitoring the source of fault), Supplier performance (during the warranty and after warranty), Technical staff performance (corrective and preventive), Model performance (comparing to others model for the same clinical use) 3. Reliability 4. Costs. I used the evaluation for writing specification, and evaluating and comparing new or existing equipment before and after purchase. During these projects, I estimated the working life of the equipment by considering workloads, working environment and technical actions such as Safety, Reliability, Features, Ease of use, Cost effectiveness, Service, Training and Continued service support. I used retrospective studies by evaluating the past data from the medical engineering database to evaluate different imaging equipment, and prepare technical specification for new equipment purchases. During installation of equipment, I designed and planned for radiation shielding for the installation of x-ray systems, prior to installation, and managed decommissioning of old equipment and commissioning of new equipment. As lead clinical engineer, I assessed and ensured the electrical, ventilation specification for each room comply with CAN/CSA C22.2 No.60601, Medical Electrical Equipment standards and manuals and Z32 electrical safety for health care. I have provided technical support for installation planning of medical imaging equipment. I have collaborated with imaging service team, clinical staff, planning and redevelopment staff and consultants (architects and engineers) on these projects. As acting manager, I worked with team of Biomedical Engineers to ensure equipment are tested, and ready for use.

REPRESENTATIVE PROJECTS

Medical Imaging Redevelopment Projects:

As Clinical Engineer, I managed several projects related to hospital redevelopment, including decommissioning, commissioning and upgrading medical imaging equipment. For example, managed the successful move and setup of the entire imaging equipment department at the new Women's College Hospital building. My involvement includes, but not limited to identifying the equipment needs, designing the room and working closely with clinical team as well as project managers. For designing the room, I planned the radiation shielding for the installation of x-ray, Toshiba Ultimix, Bone Densitometry, Mammography, Angiography, Fluoroscopy, PET CT, Nuclear Medicine SPECT CT, C-ARMS, and CT systems. I also designed and planned for radiation Multipurpose Operation Room (MPOR) at Toronto General Hospital. During the projects I planned the radiation shielding for the installation of x-ray, Toshiba Ultimix Fluoroscopy and CT scanner in hybrid OR rooms. I have used AutoCAD software to show dimensions for the walls, doors, etc. And I have been gathering data, performing shielding design and calculations, and preparing document for the Ministry of Health's approval. I also provided technical consultation on prioritization, acquisition and decommissioning of medical imaging equipment. During purchase I prepared technical specification, evaluated several equipment and provided recommendation for purchase. During installation, I provided technical consultation for installation of the newly purchased equipment.

IV pump Implementation:

As Project Manager, I managed the implementation of 1300 smart Pumps across University Health Network. Provided leadership of the day-to-day operations of the project delivery team comprised of clinical, biomedical engineering, IT, education, material management, and transportation. During this project I developed control plan with a summary of developed processes, along with process owners involved in the ongoing operation of Data Set Management, Education, CQI Report and Compliance, Software and Devices, Downtime and Issues for successful transition to operations. I also prepared technical specification for IV poles and evaluated various IV poles ergonomics for purchase and provided recommendation.

- Established image quality assurance program for University Health Network:

I developed quantitative method using MATLAB for image quality assessment for ultrasound modalities. I have incorporated

quantitative techniques with qualitative techniques, which can lead to potential elimination of the variability in human observer performance within the qualitative image quality. Every time a new ultrasound equipment was purchased, I established a baseline, and evaluated the ultrasound image quality with baseline every year by utilizing quantitative and qualitative approach. In addition, I evaluated image quality of the probes and systems by:

- Evaluating the image quality using ultrasound phantom

- I used MATLAB image processing tool to compare the post processing image of ultrasound and I applied Post Processing Filters to the images to perform the image optimization.

Incident investigation involving medical devices:

As Clinical Engineer I routinely involve in technical investigating incidents involving medical devices to analyze and improve patient and staff safety in the hospital. Part of the Investigation I evaluated the technology, user interface involving medical devices. I prepared incident reports and recommendations using FMEA and Root Cause Analysis.

Purchase and evaluation of new Ultrasound, Fluoroscopy, Digital X-Ray:

I was actively involved in evaluation committees to purchase new imaging equipment for the hospital. I use engineering skills and experience to prepare technical specification for RFP (Request for Purchase); I supplied expertise to other departments and purchasing department for medical equipment selection and evaluation.

SARA SALARI SHARIF (22-028-35)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Grand River Hospital
Ontario (Canada)
Manager, Biomedical Engineering
November 2015 – April 2016

Verified by
Justyna Konior
Justyna.Konior@thp.ca

Experience Summary
Full-Time
Engineering: 5 months
Experience under licensed engineer:
None



TASKS

- Evaluated purchase of various medical devices by assessing the need for the device; identify what is required; evaluate the product via technical, clinical, and user requirement; collate the results for committee decision making; and plan for the introduction and support of the equipment. During the specification for the RFP template I have prepared and evaluated specification for RFP templates to include applicable CSA standards including CSA/IEC 60601-1 Medical Electrical Requirement 6601-1-2 Electromagnetic disturbance requirement and tests. CSA Z32-15 Electrical Safety and essential electrical systems in health care facilities to ensure that new medical equipment meets government safety standards.



REPRESENTATIVE PROJECTS

I have create a risk-based preventative maintenance (PM)/ performance assurance system for medical equipment across three hospitals to meet applicable accreditation standards. Including determining the risk levels of all devices, scheduling, and assigning the PM work orders for completion by biomedical engineering technologists. I wrote internal policy documents referring to PM completions and the use of the computerized maintenance management system (CMMS). I worked on other smaller projects and assisted in equipment repairs when needed.

There were many steps in implementing the risk-based preventative maintenance (PM) system successfully. Initially I had to define project scope and design requirements through assessing hospital accreditation standards, stakeholders needs, and evaluating deficiencies in the existing system. To do this I met with staff individually to collect their opinions on their expectations of the new system and the limitations of the existing system. I re-wrote the accreditation standards into design requirements and included other requirements defined by the stakeholders. I also met with the team routinely throughout the scheduling and assigning phase to get clarification and feedback from the team.

As part of the risk-based PM system, I assessed and categorized equipment into risk categories using health Canada's medical equipment class ratings and other variables such as: equipment function and use, safety features, potential failures methods & risks/impacts of failures. I used the Health Canada ratings as an initial guide and then reviewed each equipment type by intended use, potential failure methods, and safety features and adjusted their category accordingly. I then compared the list with PM risk categorizations shared by other hospitals to review any significant discrepancies further. The PM frequency for most devices was determined by manufacturer specifications however in a few circumstances the existing PM schedules were more frequent than the manufacturer recommendation. In these cases I reviewed the past reliability of equipment to assess the appropriateness of their more frequent PM schedule (annual vs semi-annual). This review included incident reports, repair history, and PM performance history. I chose to add a risk classification to the PM program to ensure the highest risk equipment is prioritized over lower risk devices.

I also created and executed an implementation plan, this included training staff on the new system and creating CMMS standard operating policies, educating staff and managing the conversion to the new system, and establishing PM completion targets. The physical implementation of the program was automated through the CMMS system. To transition the team to the new system I used a combination of written training documentation, presentations, and one on one reviews. Completion targets were selected to match industry best practice documentation.

SARA SALARI SHARIF (22-028-35)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Trillium Health Partners
Ontario (Canada)
Corporate Manager, Biomedical
Engineering
April 2016—February 2019

Verified by
Sara Salari Sharif (Self)

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



TASKS

- Investigated low-high risk incidents involving medical equipment by conducting clinical interviews and record review, biomedical or biomechanical analyses, determination of device failure mechanisms, and simulation of events. Prepared technical reports and recommendation for legal, quality and risk review department review.

I participated in evaluation committees to purchase new surgical robot. I supplied technical expertise to the clinical team as well as the purchasing department for medical equipment evaluation. Further I gained knowledge regarding equipment purchasing, and implementation processes for medical equipment. I applied Application of theory in the project by analyzing the reliability of the equipment by looking at equipment failure, assessed the performance of equipment, assessed and reviewed certificate of compliance for electrical requirement, evaluated the service cost of the equipment and assessed the technology.



REPRESENTATIVE PROJECTS

Provided Biomedical Engineering expertise for Credit Valley Hospital redevelopment, including evaluation of different medical equipment, making recommendations on their installation and use. During this projects I was responsible for the definition of room layouts and for the validation of structural layouts and electrical, ventilation and mechanical requirements of the hospital. The installation process included checking the electrical safety, checking leakage current, testing the operational functions, and training the users and local technical personnel. I used power electronics and electrical safety knowledge.

During acceptance:

- I provided technical assistance during acceptance. I worked with a group of radiologists, sonographers and company service engineers doing installations to resolve problems as they were discovered. This led to a faster installation and ensured that the equipment is performing to specification when the installation is complete.

During commissioning:

- I assisted with establishing the protocol for ultrasound equipment and if vendors provided protocols were to be used.
- I worked with electrical engineers and other personnel to identify, define, and solve developmental problems during electrical installations.
- I inspected the site conditions and provided recommendation.

SARA SALARI SHARIF (22-028-35)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Olympus Medical
Ontario (Canada)
Quality Assurance Manager
February 2019—June 2019

Verified by
Peter Lundrigan
Peter.Lundrigan@olympus.com

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



TASKS

- Provided regulatory, quality assurance, analysis, audit, and training support, covering all medical device regulatory standards Health Canada SOR-98-282, and FDA regulatory standards.
- Provided first root causes analysis training to supervisors to improve incident investigation.
- Responsible for the Quality Assurance Programs of service department, including audits and on-going evaluation of program effectiveness and improvements using lean mythology.
- Used FMEA methodology to analyze process for potential problems and impacts.
- Applied lean methodology for process improvement for existing procedures and reflected the changes on the work instruction/procedures.
- Worked with regulatory affair department, and service engineering, production and quality to close out non- conformance, CAPA's in a timely manner.
- Analyzed descriptive material notice data trends and recommended improvements.
- Ensured application of QS are consistently met with service engineering and operations



REPRESENTATIVE PROJECTS

Olympus Canada was in process of obtaining ISO 13485. I designed and document Olympus quality manual and procedures by looking at current process in service department and redesigning to address all the requirement of the standard and manufacture needs for repair. Once the system was developed and documented, I trained employees on different repair and quality assurance procedures for the scope repairs, I conducted quality audits to ensure process for repairs are working.

SARA SALARI SHARIF (22-028-35)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Nova Scotia Health Authority
Nova Scotia (Canada)
Director , Biomedical Engineering
June 2019—July 2020

Verified by
Sara Salari Sharif (Self)

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



TASKS

- Planned and designed a new capital medical equipment replacement plan for Nova Scotia Health Authority. Consulted with the capital committee during capital request meetings on medical device expected lifespans, repair requirements and history, obsolescence, and costs, and gave input into scoring capital submissions
- Participated in projects such as new/used equipment acquisition, purchase planning, technical analysis of vendor proposals, installation planning, equipment upgrades, and evaluation of service contracts. - Participated in development of technical specification and evaluations of the RFP and RFQ for medical equipment. As a director of Biomedical Engineering and licensed professional engineering I supervised Biomedical Engineer work to develop plans for replacement and technical specification for capital medical equipment purchases. In this role NSHA clinical team have relied on my opinions, judgments for designs of capital medical equipment replacement program which held to standards of CSA 60601, Clinical Engineering standard of practice, IEC 80001 and other applicable Biomedical / Clinical Engineering standards.



REPRESENTATIVE PROJECTS

During the 12 months that I worked at Nova Scotia Health Authority, I was involved with the capital equipment replacement project to replace the fleet of medical devices that were end-of-life and required replacement. I have provided biomedical engineering expertise to review maintenance capital submissions for medical equipment replacement for the Nova Scotia Health Authority between July 2019 to June 2020. Once the yearly capital budget was approved, I have provided clinical engineering expertise to review purchase proposals for various medical devices such as ventilators, IV pumps, Dialysis Machines, Ultrasound Equipment, and Electro Surgical units. During this process, I have evaluated and tested several vendor proposals for each type of medical equipment. I also reviewed the electrical requirement to make sure it meets the requirement for IEC/CSA 60601 medical electrical standards for all medical equipment with electrical components, Z387 installation of ESU in health care, and CSA/IEC 61000 for electromagnetic compatibility. Once the medical device technology was chosen, I reviewed and evaluated the proposed medical equipment with hospital engineers, clinicians who use the device, along with other relevant experts. I tested the vendor loaned equipment for performance, and potential deficiencies. Based on the device's performance against the defined test criteria, I identified the advantages and disadvantages of the technology, prepared an evaluation report for hospital admiration.

SARA SALARI SHARIF (22-028-35)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

UF Health Shands (University of Florida)
Florida (United States)
Director , Clinical Engineering
July 2020—April 2021

Verified by
Sara Salari Sharif (Self)

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



TASKS

Responsible for medical equipment management program in compliance with all regulatory requirements including JCAHO, NFPA, AAMI, FDA and State.

Responsible for monitoring all medical equipment and ensuring compliance with all regulatory requirements, organizational standards, and policies and procedures for System Clinical Engineering.

Accountable for proactive life cycle management and procurement strategies, preventive maintenance, benchmarking based on measurable metrics and financial stewardship for all system-wide equipment assets and ensure accuracy and maximum utilization of the medical equipment database program.

Responsible for the Accountability of medical planning and complete specifications preparation for capital construction Oak Surgery, Intensive Care Unit .



REPRESENTATIVE PROJECTS

1) Pre/Post PACU

I have been involved with the renovation of the North Tower Shands Pre and post-operating rooms. During the projects, I have reviewed the medical equipment needs based on the patient population, as well as equipment requirements such as power supply, power draw, and networking requirements to ensure sufficient infrastructure was present for the new space for the physiological monitors.

During the design, I have participated in projects such as new medical equipment purchase planning, analysis of vendor proposals, installation planning, equipment upgrades, evaluation of service contracts, and equipment disposal

During the installation, I have checked documentation related to electrical safety, checking leakage current, testing the operational functions by using power electronics and electrical safety knowledge.

After installation, I have monitored the performance of the equipment to ensure it meets the manufacturing requirement. I have also managed alerts and recalls related to equipment. This involves the documentation of alerts, review modification or upgrades, and managing the correction of the alerts. I also review equipment-related incident reports and involved in equipment technical incident investigations.

I am currently managing the life cycle of the equipment by developing, and upgrading the maintenance programs for the newly built department.

I review the performance of the department to ensure it meets the medical equipment management program and it meets the expectation of JCAHO, NFPA, and state.

2) End of life Physiological Monitor Replacement (July - September 2020)

I have evaluated end of life fleet of the patient monitoring systems and central stations for North Tower and South Tower back and prepared a capital plan for the replacement of the existing end-of-life monitors. During this project, I reviewed End of life infrastructure for the entire Shands hospital and prepared a presentation to identify technical risks associated with the End of life equipment for the hospital leadership team. I also worked with the vendor to evaluate the existing power and network requirement and planned for the upgrade as needed. I have also worked with other hospital engineers to make sure we have the power requirement needed for the network rooms.

SARA SALARI SHARIF (22-028-35)

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

Other

Other Disciplines

Biomedical Engineering

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

17. Future Licensing of Emerging Technology Engineering Disciplines

MEMORANDUM

Nevada Board of Professional Engineers and Land Surveyors

To: Board Members
From: Patty Mamola, Executive Director
Date: May 5, 2021
Subject: Licensing Emerging Disciplines

Background

[NRS 625.050](#) defines the practice of engineering as any professional service which involves the application of engineering principles and data where public health, safety welfare is a concern. It is a broad definition and the only exemption in statute is for federal employees and certain employees of utility companies.

[NRS 625.025](#) defines “Discipline” as a recognized field of study in professional engineering as determined by the board.

[NRS 625.175](#) gives the board the authority to define scope of disciplines by regulation for which licensure is required.

[NAC 625.220](#) provides the list of disciplines that an applicant may apply for licensure, included in that list is “any other discipline of engineering which the board deems appropriate”.

Discussion

In addition to unique situations arising of how to license applicants in disciplines not traditionally licensed by Nevada, discussions are on-going at the national level in considering the future of engineering licensure, see NSPE article titled, [Does Licensing Need a Shake Up?](#)

Engineering educators are offering blended degrees and new degrees in new topic areas resulting from rapidly emerging technologies of the current fourth industrial revolution. In Nevada, UNLV has a blended degree marketed as Entertainment Engineering that has been offered for nearly a decade. Disruptive technologies are blurring the boundaries of the traditional practice of engineering and challenging traditional licensure models, this becomes even more challenging for states such as Nevada that license by discipline. Reference is made to [ECL-USA Summit 10 report, Licensure Models for the Fourth Industrial Revolution](#).

Nevada has historically led the nation in modernizing engineering licensure and removing unnecessary barriers. For example, Nevada was the first state to decouple exams from experience. Nevada was also one of the first states to adopt use of the NCEES Record as its application for licensure. Staff asks that

Memorandum
Licensing Emerging Disciplines
May 5, 2021
Page 2 of 2

the board consider the future of engineering licensure in the face of challenges to traditional licensure models.

Proposed Action

Refer the topic to the board's Legislative Committee to be included with on-going discussions related to discipline specific licensure.

18. Election of Board Chair and Vice Chair

19. Legislative Session
Report by Board's
Government Liaison
Susan Fisher

20. NRS/NAC 625 Waiver Requests

WAIVER REQUESTS
Thursday, May 20, 2021

APPLICANTS REQUESTING WAIVER OF NRS 625.183(4)(B)			
NAME	DISCIPLINE	TO:	GRANT?
1. Benjamin Ashcraft	CE	Angelo Spata, PE	
2. Samuel Williams	ME	Karen Purcell, PE	

NRS 625.183, item 4, part b, "Two of the 4 years of active experience must have been completed by working under the direct supervision of a professional engineer who is licensed in the discipline."

APPLICANTS REQUESTING WAIVER OF NRS 625.193(1)(A)			
NAME	DISCIPLINE	TO:	GRANT?
1. Henry Bishara	CE	Angelo Spata, PE	

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

21. 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

BENJAMIN ASHCRAFT (17-339-80)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
03/12/2020

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
9 years, 5 months

Total Engineering
Experience
9 years, 5 months

Experience under licensed
engineer
1 year, 8 months

Disciplinary Action
None reported



EDUCATION



Associates in General Studies
Florida SouthWestern State College
August 2001–December 2004

Non-degree
Florida SouthWestern State College
January 2005–May 2006

Bachelors in Civil Engineering (EAC)
University of Florida
August 2006–May 2009

Masters in Civil Engineering
University of Florida
January 2010–May 2011



WAIVER REQUEST: NRS 625.183, item 4,
part b, "Two of the 4 years of active experience
must have been completed by working under
the direct supervision of a professional
engineer who is licensed in the discipline."

EXAMS



Fundamentals of Engineering (FE)
Florida PE
April 2009

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

LICENSES



Additional Licenses
None

BENJAMIN ASHCRAFT (17-339-80)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

New Millennium Building Systems -
Lake City, FL
Florida (United States)
Design Engineer
September 2011 – September 2013

Verified by
Benjamin Jacob Pitchford
ben.pitchford@newmill.com

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

TASKS

As a design engineer I was responsible for the structural design of open web steel joists. Primary tasks included reviewing structural drawings from design firms to interpret and ensure compliance of the engineering instructions and intent of the project engineer of record for the open web steel joists. Consistent oversight and inspection of in-house proprietary structural design software as well as structural analysis of truss design and steel design for conditions outside of scope of program. Problem solve field issues and created structural modification and reinforcement details for joists that had new requirements that deviated from their originally fabricated purpose. Conversing about IBC, ASCE, and Steel Joist Institute codes with outside engineers.

REPRESENTATIVE PROJECTS

Lacoste Elementary School – Worked under supervision of Amin Fares, P.E. to assist in design of special profile joists for complex roof profile. Profiles of certain joists were beyond the design limitations of in house proprietary design software at the time. Used structural analysis hand calculations and proper weld notation to modify standard production shoporders to produce required special joists. Added supplemental calculations for final calculation package for sound engineering design for unique joists.

John C. Maxwell Leadership Center – Responsible for joist design of gym area of large special profile bowstring joists. Due to production facility and shipping limitations, joists could not be fabricated in one piece. Designed system of joist halves that met requirements of the Steel Joist Institute Standard design requirements and AISC steel design, complete with customized shop order instructions and safe joist placement instructions that complied with OSHA requirements. Joists designed reviewed and approved by PE on staff.

Alice Harte Elementary School – In charge of design of area of building with many challenges. Seat depth requirements were not properly coordinated from approval drawings, leaving challenging design for sloped joist ends. Hand calculated composite section for coped seat reinforcement for most compromised seat depth to slope ratio for joist end and provided special reinforcement details for production shoporder. Large special profile joists outside of limitations of production facility also required on this project. Designed paired joist system independently and received approval from PE on staff after final review.

Love Joy Rec Center – Created modification details to shorten special square end joists due to field conditions. Details consisted of instructions to cut and add members to joist in clear and consist fashion. Structural analysis was used to verify necessary reinforcement for existing members due to new geometric parameters.

BENJAMIN ASHCRAFT (17-339-80)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

New Millennium Building Systems -
Fallon, NV
Nevada (United States)
Engineering Manager
September 2013—March 2020

Verified by
Jeffrey Coker
jeff.coker@newmill.com

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



TASKS

As the engineering manager of the Fallon Nevada New Millennium joist facility I evaluate systems and practices at facility to ensure conformance to Steel Joist Institute requirements, make sure sound engineering practices are in place, and contribute and coordinate engineering expertise for economical and sound materials, software, and quality of product produced. I render judgments on shop issues and quality control practices with our quality control department to ensure a safe and robust product. I hone processes for engineering depart to ensure conformance to engineering requirements for non-degreed engineer personnel in department. I collaborate with engineering manager counterparts on setting processes and directing enhancements to in-house proprietary design software based on sound engineering practices. I train personnel on engineering software and job duties of design engineers in department.



REPRESENTATIVE PROJECTS

2013 - Steel inventory – I analyzed inventory of steel sections used in joist design for economical selection of steel sizes that are effective in number of options to not be overwhelming for production facility but would allow for optimal weight efficiency for joist members for compression lengths and area coupled with price and availability.

2014 - Seismic Joist Design – I supervised process to implement correctly seismic sway brace loading requirements from sprinkler systems directed from structural drawings. I analyzed load combinations from governing code requirements, Steel Joist Institute joist designation selection, and in-house proprietary design software processing of required load combinations for consideration of process that would ensure a sound conservative yet still economical design for steel joists provided in high seismic regions. Process reviewed and collaborated with professional engineers on staff.

2015 - Quality Control Process – In collaboration with welding and metallurgical engineers, I reviewed production shop processes. I calculated seat tolerances and weld requirements and adjusted for sound standards for high seismic areas that production facility covers.

2013-2020 - In-House Proprietary Design Software – I provided direction on program enhancements and reviewed code to ensure that software is robust and is in conformance with sound structural engineering and Steel Joist Institute codes and specifications.

2019 - Walkway – I designed elevated walkway for production facility. In house proprietary design software and RISA 3D used in conjunction for project. Walkway consisted of structural steel and open web steel joists. Joists utilized in walkway were outside of Steel Joist Institute parameters in span length and loading plain due to cantilever and zigzag nature of walkway. RISA 3D used to give second order analysis and give additional verification of soundness of design. Detailed out weld requirements for structural steel and connections to conform correctly to the boundary conditions set in structural analysis software.

BENJAMIN ASHCRAFT (17-339-80)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

*New Millennium Building Systems
Nevada (United States)
Design Engineer
March 2020—February 2021*

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

Experience Summary
**Full-Time
Engineering: 11 months
Post EAC degree: 11 months
Experience under licensed engineer:
11 months**



TASKS

As a design engineer I am responsible for the structural design of open web steel joists. Primary tasks include reviewing structural drawings from design firms to interpret and ensure compliance of the engineering instructions and intent of the project engineer of record for the open web steel joists. Consistent oversight and inspection of in-house proprietary structural design software as well as structural analysis of truss design and steel design for conditions outside of scope of program. Problem solve field issues and created structural modification and reinforcement details for joists that had new requirements that deviated from their originally fabricated purpose. Conversing about IBC, ASCE, and Steel Joist Institute codes with outside engineers.



REPRESENTATIVE PROJECTS

Project Rodeo and Project Chico (2020)

Helped with two large multistory warehouses for Amazon. Both projects had composite joists that were utilized in lieu of wide flange beams for the floor system. Assigned as checker to projects for composite joists for PE on staff who designed the composite joists on the projects. To check work, independently worked through AISC for end plate design and holes pattern for joist end connection to verify joists as designed. Independently worked through joist composite design that is beyond scope of in-house design program to verify composite joist design considerations are properly accounted for in joist design.

Project Winlock (2020-2021)

Assigned as project engineer for large warehouse where I managed technical aspects of project Coordinated structural requirements of joist seats per steel joist institute requirement during detailing process to project engineer of record. Designed joists and Joist Girders for sliding connection at expansion joint on project in conjunction with larger rollover force that met project requirements but still delivered economically viable product.

BENJAMIN ASHCRAFT (17-339-80)

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

Structural

Other Disciplines

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

No

BENJAMIN ASHCRAFT (17-339-80)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS


Start Date	End Date	Reason	Explanation
06/2009	12/2009	Unemployed	Searching for job during recession, eventually decided to go back to get masters degree

NELSON BAGGS (16-626-25)


All work experience reviewed by two licensed professionals





DISCIPLINE: CIVIL

GENERAL

 Applying To **Nevada**
Application Type **Initial - PE**
Application Date **04/30/2021**
Citizenship **United States**

SUMMARY


 Engineering Experience after EAC degree **4 years, 11 months**
Total Engineering Experience **5 years, 3 months**
Experience under licensed engineer **5 years, 3 months**
Disciplinary Action **None reported**

EDUCATION

 Bachelors in Civil Engineering (EAC)
University of Nevada, Las Vegas
September 2009–May 2016

EXAMS

 Fundamentals of Engineering (FE)
Nevada
April 2016
Principles and Practice of Engineering (PE)
Civil
Nevada
October 2020

LICENSES

 Additional Licenses **None**

NELSON BAGGS (16-626-25)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

GCW, Inc.
Nevada (United States)
Engineering Intern II
January 2016—April 2021

Verified by
Steve Jones
SJones@gcwengineering.com

Experience Summary
Full-Time
Engineering: 5 years, 3 months
Post EAC degree: 4 years, 11 months
Experience under licensed engineer:
5 years, 3 months

TASKS

The major branch of engineering that makes up the vast majority of my work experience thus far is in flood control. I have been employed by GCW, Inc. for the past 5 years. I started as an intern working approximately 24 hours a week in January of 2016 while I was finishing my final semester in college. During this time I was familiarized with commonly used software in the flood control division including HEC-1, Flowmaster, HEC-RAS, and CAD while helping to prepare drainage studies for submittals to agencies. I was hired as full time in May of 2016 around the same time that I passed the FE Exam. At this time I was classified as an Engineering Intern. As an Engineering Intern I was be responsible for performing specific calculations using the aforementioned software for different projects under the supervision of a Professional Engineer. After approximately 1 1/2 years of experience, I went from doing specific calculations to examining a project as a whole and deciding and performing the necessary calculations to ensure the project is adequately flood protected under the supervision of a Professional Engineer. After approximately 2 years of experience I was classified as an Engineering Intern II, which is my current classification. Currently, I am responsible for taking a Project from start to finish including preforming all the necessary calculations, reviewing the project plans, and writing the report. My work is then reviewed by a Professional Engineer.

REPRESENTATIVE PROJECTS

Roadway Improvements

The project was titled Summerlin Village 26 Reverence Parkway and is located is the City of Las Vegas. The scope of this project was to prepare a technical drainage study to address the proposed roadway improvements which included approximately 2000-feet of roadway and 600-ft of storm drain.

The Project was approved in July of 2016.

For this project I performed street normal depth calculations to ensure the roadway met 100-year and 10-year criteria and used Standard Form 6 to analyze the proposed storm drain to ensure it met criteria as well.

Residential Drainage

The Project was titled Horizon Ridge and Valle Verde and is located in the City of Henderson. The scope of this project was to prepare a technical drainage study for a 10-acre residential development.

This Project was approved in November of 2017.

I assisted in the offsite and onsite hydrologic calculations including determining curve numbers, rainfall, lag-times, and then using these values to create HEC-1 models to determine runoff for the existing and ultimate conditions. I also performed hydraulic calculations for street calculations to ensure local street criteria was met. In addition, I modeled offsite storm drain improvements which consisted of existing and proposed storm drain facilities to ensure they had adequate capacity.

Detention Basin Emergency Action Plan

The project was titled Summerlin Detention Basin No. 5 EAP and is located in the City of Las Vegas. The scope of this project was to prepare an emergency action plan for Nevada Dam Safety which included the information necessary to handle an emergency event resulting from a dam failure event or an overtopping of the detention basin spillway.

This Project was submitted in June of 2018.

For this project, I prepared the 2-dimensional HEC-RAS models for the embankment failure event and the spillway overtopping event for the dam. I then used HEC-RAS to determine the risk level for different downstream areas based on the depth of flow and computed response times used for evacuation of the different downstream areas. I then created exhibits to convey these details to emergency responders.

LOMR

The Project was titled Muddy River Logandale Levee and is located in the Logandale area of Clark County. The scope of this project was to receive a letter of map revision (LOMR) from FEMA based on the construction of the Logandale Levee.

The Project received approval in August of 2019.

For this project I assisted in preparing the HEC-RAS models for the effective and post project conditions. I then mapped the revised floodplain and floodways due to the proposed improvements and prepared the revised annotated FIRM Map showing the revisions to the floodzone. As part of this project I also prepared an emergency action plan for a levee failure event that included mapping the evacuation zones and determined risk levels based on the depth of flow in the levee. I then created exhibits to convey these details to emergency responders.

Commercial Flood Control Design

The project was titled HAAS Automation Industrial/Manufacturing Complex Phase 1 and is located in the City of Henderson. The scope of this project was to prepare a technical drainage study for a +/- 160 acre commercial development .

The Project was submitted in February of 2020.

For this project, I assisted in the hydrologic calculations for the offsite and onsite watersheds including determining curve numbers, rainfall, lag-times, and then using these values to create HEC-1 models to determine flow rates used for design. I also assisted in modeling approximately 3 miles of storm drain from 18" reinforced concrete pipes to 10'x6' reinforced concrete boxes and sized varies drop inlets to collect runoff onsite and in adjacent streets. As part of the LID parking lot requirements I helped determine alternatives that could be used to meet the 75% treatment requirement. The chosen alternative ended up being a CDS system for which I calculated the design parameters used by the manufacturer for the design of the CDS system.

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

HENRY BISHARA (20-442-52)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL


 Applying To **Nevada**

Application Type **Initial - PE**

Application Date **04/30/2021**

Citizenship **Egypt**



SUMMARY

 Engineering Experience after EAC degree


Total Engineering Experience **25 years**

Experience under licensed engineer **9 years, 4 months**

Disciplinary Action **None reported**


 

EDUCATION

 Bachelors in Civil Engineering - Structures
Ain Shams University
September 1987–August 1993

Waiver Request: NRS 625.193(1)
(A) Waiver of FE with 15 or more years of experience.

EXAMS

 Waived Fundamentals of Engineering (FE)
California
December 2019

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

LICENSES

 Additional Licenses **None**

HENRY BISHARA (20-442-52)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

*Salama Structural Engineers
Dubai (Dubayy) (United Arab Emirates)
Structural Principle & Team Leader
October 1993—December 2005*

Verified by
ASSAAD IBRAHIM SALAMA
asalama@pdmsweb.com

Experience Summary
Full-Time
Engineering: 12 years, 2 months
Experience under licensed engineer:
None

TASKS

Structure Engineer Oct 1993 to December 1996

- I performed structure design inclusive of preparation of analytical models, structure calculation Sheet, and reported on structural drawings.
- I Prepared Shop Drawings and rebar details.
- I Prepared BOQ's & performance specifications.
- I performed alteration of existing structures including preparation of calculations for strengthening works and it details.

Senior Structure Engineer Jan 1997 to December 2000

- I performed structure design inclusive of preparation of design criteria, analytical models, structure calculation Sheet, and reported on structural drawings.
- I Prepared BOQ's & specifications.
- I did an internal Audit & design review on other engineers.
- I did Site observations & structure inspections.
- I participate in providing structural solutions and structure concepts.
- Assessment of existing structures.
- Alteration of existing structures, preparation of drawings, and calculations for strengthening works.
- Review of temporary works design.
- Coordination with other disciplines such as Architects and MEP.
- Respond to site technical inquires.

Structural Principle & Team Leader from Jan 2001 to December 2005

In addition to the above-mentioned duties, I was responsible for the following tasks:

- Preparation of structure system concept
- Assign engineering tasks to my team and review their design and models. Also, support to solve structure design challenges.
- Report on Structure design drawings at the details design stage.
- I redesigned & Value engineering no. of projects using innovative ideas, aiming for cost and time reduction.
- Assessment of existing structures by conducting visual inspections, recommending nondestructive testing regimes,s and evaluating testing results.
- Review of tender technical submission and tender evaluation.
- Review of construction time schedule.
- I reviewed the design of temporary works during construction.
- I did Site observations on the number of structural failures and construction defects

REPRESENTATIVE PROJECTS

1. Paradise Resort. Hurghada, Egypt. (October 1993 to October 1994)

The project comprises 4 sorties guest room clusters and the main building.

I performed a reanalysis of guest room clusters under the effect of Seismic loads, I redesign & detailed shear walls, moment frames using UBC 1991. Also, I have redesigned and detailed a number of concrete flat slabs instead of conventional slab systems including the preparation of shop drawings and BBS.

I performed a full structure design for the main building including calculation of seismic loads, preparation of 2D modeling of main lateral stability elements, distribute shear forces, calculate centers of stiffness/mass, and assessing torsion irregularly. Also, I design and detailed, strip footings, slabs, beams, and shear walls and reported on structure drawings

2. Italian Hospital. Cairo. Egypt. Structure Rehabilitation and Extension. July 1994 to January 1995

Italian Hospital built back in the early nineties the patient wings and church building were built using stones bearing walls. The buildings were suffering from severe cracking after the 1992 Cairo Earthquake.

I Evaluate structure conditions based on visual conditions & as-built drawings. I have designed and detailed the proposed strengthening works using a skin of 100 mm shot concrete, I Design a new foundation. I proposed a methodology for crack repair & I conducted site inspection for repair works.

3. Mohamed Monsef Villa, Alexandria, Egypt. December 1994 to May 1995

I performed structure design including the preparation of framing plan scheme, design criteria, check structure irregularities, modeling, design of structure elements, report on structural drawings.

4. Hayaat Residence, El Shrouk city, Cairo, Egypt. April 1995 to December 1995

A compound of Villas has 4 prototypes.

I performed structure design for two prototypes including the preparation of framing plan scheme, design criteria, check structure irregularities, modeling, design of structure elements, report on structural drawings. Also, I have conducted site inspections.

5. Katameya Heights, New, Cairo, Egypt. January 1996 to March 2001

The project comprises private mansions built of plots of looking gulf court. Each mansion has a unique Architectural design. I performed structural design of at least 25 mansions. I Prepare structure framing, design criteria, modeling, design of structure elements, report on structure drawings & structure specifications.

6. Savoy Hotel. Sharm El Shiekh, Egypt. April 1996 to October 1999

I performed structure design for Main Building and Guest room, Private Villas & swimming pool including the preparation of framing plan scheme, design criteria, check structure irregularities, modeling, design of structure elements, report on structural drawings. Also, I was responsible for the design coordination with other disciplines.

7. Seat Car Assembly Plant, January 1999 switched to BMW Assembly in 2004. Located on 6th of October City, Egypt. Structure Design.

I was the team leader responsible for the structural design of the project performing the same tasks as project No. 6. in addition, in addition to the preparation of tender documents, and contractor evaluation

8. New Manor House School 6th of October City, Egypt. May 2000 December 2001

The project comprises a number of building G+3. I was the team leader responsible for the structural design of the project performing the same tasks as project No. 6. For elementary school building and administration building. Also, I was in charge of reviewing others' designs and reporting on structural drawings.

9. Rehabilitation of Ismail El Mofatsh Palace, Down Town Cairo. November 2002 to December 2003

I prepared as-built drawings for the ancient palace, I proposed and designed strengthening work for the palace using the same technique in a project no. 2.

10. Jumeirah Beach Residence Sector-4. Dubai Marina, Dubai. Structural redesign and Value Engineering. April 2004 to June 2005

The project comprises 8 towers varying in height from 35 to 55 stories. I was the team leader responsible for the structural redesign of the towers, I prepared the structural design criteria. Reviewed the 3D Models prepared by others, design and detailed the number of tower raft on piles, report on structure drawings, coordinated with the main contractor, and responding to site inquires.

11. Arjaan by Rotana is a complex office tower and hotel towers. Al Suhouh, Dubai. Structural redesign and Value Engineering. July 2005 to December 2005

Same as responsibility for Project No. 10.

HENRY BISHARA (20-442-52)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

*Salama Structural Engineers
Dubai (Dubayy) (United Arab Emirates)
General and Technical Manager
January 2005—March 2010*

Verified by
Ahmad Hashem Kasem
Akasem1018@hotmail.com

Experience Summary
Full-Time
Engineering: 5 years, 2 months
**Experience under licensed engineer:
5 years, 2 months**

TASKS

Structure Director October, Jan. 2006 to October 2008 –
General and Technical Manager November 2008 till now

- I performed structure design inclusive of preparation of design criteria, analytical models, structure calculation Sheet, and reported on structural drawings.
 - I prepared structure concepts for various Iconic projects and high-rise including the main lateral stability systems and outriggers.
 - Review of analytical 3D models of structures prepared by others.
 - Review & report on Structure design drawings.
 - Redesign & Value engineering of projects using innovative ideas, aiming for cost and time reduction.
 - I performed structure peer review on a number of iconic projects being a certified third-party from Dubai & Abu Dhabi municipality.
 - Preparation of BOQ's & specifications.
 - I reviewed Shop Drawings and rebar details for concrete structures.

 - I Supported and assist the SSE team how to solve design challenges.
 - Prepare/Review structure assessment reports related to construction defects, retrofitting and rehabilitation works...etc.
 - Assessment of existing structures by conducting visual inspections, recommending nondestructive testing regimes,s and evaluating testing results.
 - Design management as head of structure design team in a number of Iconic projects through engineering recommendations and advice to the rest of the team.
 - I did Site observations on a number of structural failures and construction defects.
 - Participate in Preparing technical reports on new construction materials.
- Non-Engineering management tasks

Being the general and technical manager, I was involved in a day-to-day operation involving resource management, bid evaluation, preparation of technical proposals, communications with clients, and building official.

REPRESENTATIVE PROJECTS

1. Cayan Business Center. (January 2005 to June 2006)

Cayan Business Center is an office building located in Barsha Heights, Dubai. The project comprises 3B+G+14 Office Fl.+R. I was appointed by the main contractor to conduct a structure redesign for the building aiming for optimizing construction cost and time. I performed the following engineering task:

- I Studied Value Engineering options.
- I Prepared a new structure design criteria.
- I developed new framing plans with the new system
- I Prepared 3D & 2D structural analytical models.
- I Designed the foundation, basement wall, core walls, and superstructure & report on structural drawings.
- I coordinated the structure drawings with the Project Architect.
- I prepare structure specifications for concrete works.

2. Dorra Bay Tower (June 2006)

Dorra Bay is a residential tower located in Dubai Marian, Dubai. The project comprises 2B+G+22 Floors+R. M/s Cayan appointed SSE to conduct third-party structural peer review according to Dubai Municipality requirements. During the review process I performed the following engineering tasks:

- I reviewed project design criteria.

- I reviewed the structural framing and structure stability system of the tower.
- I reviewed the 3D ETAB model.
- I reviewed the Foundation SAFE model.
- I wrote a set of comments on the proposed structure design.
- I reviewed the piles & foundation design.
- I reviewed lateral stability system and vertical elements.
- I reviewed diaphragms requirements and post-tension slab design
- I signed off structure drawings and prepared a structure review report.

3. The Jewels Tower-Dubai Marina. (August 2007 to September 2008)

The Jewels Tower is a residential complex located in Dubai Marina, Dubai, UAE. The project comprises two twin towers each has 2B+G+19Fl.+R. SSE was appointed to conduct a structure redesign for the towers to optimize the structure design. During the redesign I performed the following tasks:

- I update design criteria according to American standers instead of British standers.
- I propose structure solutions to reduce the cost of the structure.
- I prepared structural analytical 3D models for the towers and 2D Models for slabs.
- I redesigned of Superstructure and report on revised structure drawings.
- I responded to the consultant's comments on revised criteria, Models, and drawings.

4. Cayan Tower. (October 2008 to May 2009)

Cayan Tower is a residential tower located in Dubai Marina, Dubai, UAE. Cayan tower is an Iconic tower twisted 90-degree it comprises 5B+G+75Fl.+R. with a height of 292.85 m. Cayan Real Estate appointed SSE to conduct third-party peer review according to Dubai Municipality requirements. The structure design of the project was prepared by SOM. The main stability system of the infinity tower is a tube inside the tube the inner tube is circular concrete core and an external tube is stepped columns with heavy periphery concrete beam. I was part of the SSE team reviewing the infinity tower and I performed the following engineering tasks:

- I reviewed project design criteria.
- I reviewed the structural framing and structure stability system.
- I reviewed 3D Etab Model.
- I prepared set initial comments on the submitted criteria, drawings & models.
- I conducted manual design checks on critical elements such as periphery beams using which are part of the external twisted frame.
- I checked the inter-story drifts under lateral loads, Slab deflection/vibration, and human comfort.
- I signed off structure drawings and prepared a structure review report.

5. Silverene Towers. Jan. 2009 to March 2010

The Silverene Towers is a residential complex located on plot No. 3AB Dubai Marina, Dubai, UAE owned by Cayan Investment. The project comprises two towers Tower A 3B+G 34 Fl. and Tower B 3B+G+26 Fl. Cayan Investment has appointed SSE to conduct third-party peer review and value. The structure design of the project was prepared by RMJM. I was the engineer in charge of the peer review and value engineering and I performed engineering tasks similar to project Number 2. in addition to my proposals for changes in the design criteria, the structure system led to a significant reduction in the construction cost. Also, I have developed a revised piling layout which led to a potential saving in the foundation cost.

HENRY BISHARA (20-442-52)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

*Salama Structural Engineers
Dubai (Dubayy) (United Arab Emirates)
General and Technical Manager
April 2010—August 2016*

Verified by
AKM shamim Ahsan Zubery
zubery@hotmail.com

Experience Summary
Full-Time
Engineering: 4 years, 9 months
(75%)
Experience under licensed engineer:
1 year, 1 month

TASKS

Structure Director October, Jan. 2006 to October 2008 –
General and Technical Manager November 2008 till now

- I performed structure design inclusive of preparation of design criteria, analytical models, structure calculation Sheet, and reported on structural drawings.
 - I prepared structure concepts for various Iconic projects and high-rise including the main lateral stability systems and outriggers.
 - Review of analytical 3D models of structures prepared by others.
 - Review & report on Structure design drawings.
 - Redesign & Value engineering of projects using innovative ideas, aiming for cost and time reduction.
 - I performed structure peer review on a number of iconic projects being certified third-party from Dubai & Abu Dhabi municipality.
 - Preparation of BOQ's & specifications.
 - I reviewed Shop Drawings and rebar details for concrete structures.

 - I Supported and assist the SSE team how to solve design challenges.
 - Prepare/Review structure assessment reports related to construction defects, retrofitting and rehabilitation works...etc.
 - Assessment of existing structures by conducting visual inspections, recommending nondestructive testing regimes,s and evaluating testing results.
 - Design management as head of structure design team in a number of Iconic projects through engineering recommendations and advice to the rest of the team.
 - I did Site observations on a number of structural failures and construction defects.
 - Participate in Preparing technical reports on new construction materials.
- Non-Engineering management tasks

Being a general and technical manager, I was involved in a day-to-day operation involving resource management, bid evaluation, preparation of technical proposals, communications with clients, and building officials. these duties were about 25% of my working time. however, during this period and due to workload we used to work 12 hours a day and sometimes during weekends.

REPRESENTATIVE PROJECTS

1. Damac Towers by Paramount. (April 2010 to April 2013)
Four Identical towers Hotel & furnished apartments. Each tower comprises 2B+G+9 Podiums+ 52Fl.+R. Located in Business Bay, Dubai. SSE appointed by Damac to conduct structure design for the project. I was the design director and I performed the following engineering task:
 - I drafted the structure design criteria.
 - I prepared structure concepts and reviewed framing plans.
 - I proposed the pilling arrangement under main cores and other vertical elements.
 - I advise the team to solve structure challenges such as how to enhance the tower deformation or leaning under vertical loads, control lateral drifts under wind loads & reduce the seismic gap.
 - I reviewed the design of structural elements prepared by others.
 - I calculate long-term axial shorting of vertical elements.
 - I advised the team on the methodology of how to design the outrigger system under the combined effect of lateral loads and self-straining action (axil shorting) and I reviewed the final design and detailing of the outrigger system.
 - I coordinated final structure drawings with the Project Architect.
 - I reviewed structure specifications.

- I propose and design of strengthening scheme for few shear walls due to defect in concrete strength and run assessment for the actual concrete strength using ACI 440.
- I proposed innovative Ideas to help the client to add 4 additional floors after construction of the towers was started in order to reduce weight and maintain wind loads in the same magnitude.

2. Aykon City Towers B & C (November 2015 to August 2016)

Aykon City is a residential complex located in Business Bay, Dubai. The first stage was tower B comprise of 2B+G+63 Floors+Roof & Tower C comprise of 2B+G+58Floors+Roof. Damac appointed SSE to conduct a structural peer review. During the review process I was responsible for the following engineering tasks:

- Review project design criteria.
- Review of proposed structural framing and lateral stability system of the tower.
- I proposed to the team a few options of an outrigger system to control inter-story drift.
- Review 3D ETAB model.
- Review Foundation SAFE model.
- Write a set of comments on the proposed structure design.
- Review of piles, raft foundation and recommend optimization on piling arrangement to reduce piles.
- Review of lateral stability system and vertical elements.
- Review of diaphragms requirements and overlook the review of post-tension slab design
- Sign off structure drawings and prepare structure review report.

3. The Opera District, Downtown Dubai Plot B1 & B2, Vida Services Apartment. (May 2016 to August 2016)

The project comprises of Tower B1 - (5B+G+2 Podiums+45 Typical +3 MEP Levels) & Tower B2 - 5B+G+2 Podiums+54 Typical +3MEP Levels + Penthouse. Emaar appointed SSE to conduct a structural peer review. The review of the first stage was limited to a review of structure schematic design and details design of partial basement and podium structure. During the review process I was responsible for the following engineering tasks:

- Review project design criteria.
- Review of proposed structural framing and lateral stability system of the towers and podium.
- Review of shoring system and piles for the partial basement.
- Review 3D ETAB model.
- Review of basement wall stability and design under different construction stages.
- Sign off structure drawings and prepare structure review report.

HENRY BISHARA (20-442-52)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Salama Structural Engineers
Dubai (Dubayy) (United Arab Emirates)
General and Technical Manager
September 2016 – December 2017

Verified by
Ahmad Rahimian
Ahmad.Rahimian@wsp.com

Experience Summary
Part-Time
Engineering: 8 months (50%)
Experience under licensed engineer:
8 months

TASKS

Structure Director October, Jan. 2006 to October 2008 –
General and Technical Manager November 2008 till now

- I performed structure design inclusive of preparation of design criteria, analytical models, structure calculation Sheet, and reported on structural drawings.
 - I prepared structure concepts for various Iconic projects and high-rise including the main lateral stability systems and outriggers.
 - Review of analytical 3D models of structures prepared by others.
 - Review & report on Structure design drawings.
 - Redesign & Value engineering of projects using innovative ideas, aiming for cost and time reduction.
 - I performed structure peer review on a number of iconic projects being certified third-party from Dubai & Abu Dhabi municipality.
 - Preparation of BOQ's & specifications.
 - I reviewed Shop Drawings and rebar details for concrete structures.
 - I Supported and assist the SSE team how to solve design challenges.
 - Prepare/Review structure assessment reports related to construction defects, retrofitting and rehabilitation works...etc.
 - Assessment of existing structures by conducting visual inspections, recommending nondestructive testing regimes,s and evaluating testing results.
 - Design management as head of structure design team in a number of Iconic projects through engineering recommendations and advice to the rest of the team.
 - I did Site observations on a number of structural failures and construction defects.
 - Participate in Preparing technical reports on new construction materials.
- Non-Engineering management tasks

REPRESENTATIVE PROJECTS

1. The Royal Atlantis. Palm Jumeirah, Dubai, UAE. (September 2016 to May 2017)

The project comprises a hotel Tower Heights 47 Stories (187m) and residential Tower 37 Stories (150 m). SSE was appointed by Atlantis The Palm Limited to conduct a structure peer review for the project. The structure design of the project was prepared by WSP NY. I performed the following task:

- I reviewed the design Criteria, structure framing, and lateral stability system of the towers, I was part of the technical argument with design-time about the type of the lateral stability system whether we should consider it a building frame system or wall bearing system.
- I reviewed the 3D analytical model.
- I reviewed the deflection of the 50-meter span link bridge and confirmed that the glass panels can accommodate the large deflection due to live load and carried out the discussion with the building official.
- I made enhancements to details of the connection between the link bridge upper and bottom truss cord members with the supporting concrete walls to enhance fixity and to ease constructability.
- I reviewed the pile caps and connecting slab design which was designed as a suspended slab.
- I reviewed the checking report prepared by my team.

2. HDS Tower. (June 2017 to December 2017)

Residential Tower located at Business Bay, Dubai, UAE. The tower comprises 6B+G+2P+80 to 100 floors. SSE appointed by HDS Galestate Limited to conduct structural peer review. The structure design of the project was prepared by WSP Middle East under the advice of WSP NY. I performed the following task:

- I reviewed the project design Criteria, structure framing, and lateral stability system of the towers.

- I reviewed the 3D model prepared by WSP.
- I reviewed wind tunnel test data.
- I have reviewed the barrette piles design and I have enhanced links detailing to match with code requirements.
- I reviewed the nonlinear analysis conducted using ETABS for columns shorting and made manual verification using in-house excel sheets.
- I have checked the thermal impact on the design of concrete slabs & walls lower podium floors where the length of the building has exceeded 100 meters.
- I reviewed the checking report prepared by my team.

HENRY BISHARA (20-442-52)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

*Salama Structural Engineers
Dubai (Dubayy) (United Arab Emirates)
General and Technical Manager
January 2018—March 2021*

Verified by
Hussein Abdelazeem Rida
hussein.rida@hotmail.com

Experience Summary
Full-Time
Engineering: 3 years, 2 months
**Experience under licensed engineer:
2 years, 5 months**

TASKS

Structure Director October, Jan. 2006 to October 2008 –
General and Technical Manager November 2008 till now

- I performed structure design inclusive of preparation of design criteria, analytical models, structure calculation Sheet, and reported on structural drawings.
 - I prepared structure concepts for various Iconic projects and high-rise including the main lateral stability systems and outriggers.
 - Review of analytical 3D models of structures prepared by others.
 - Review & report on Structure design drawings.
 - Redesign & Value engineering of projects using innovative ideas, aiming for cost and time reduction.
 - I performed structure peer review on a number of iconic projects being certified third-party from Dubai & Abu Dhabi municipality.
 - Preparation of BOQ's & specifications.
 - I reviewed Shop Drawings and rebar details for concrete structures.
 - I Supported and assist the SSE team how to solve design challenges.
 - Prepare/Review structure assessment reports related to construction defects, retrofitting and rehabilitation works...etc.
 - Assessment of existing structures by conducting visual inspections, recommending nondestructive testing regimes,s and evaluating testing results.
 - Design management as head of structure design team in a number of Iconic projects through engineering recommendations and advice to the rest of the team.
 - I did Site observations on a number of structural failures and construction defects.
 - Participate in Preparing technical reports on new construction materials.
- Non-Engineering management tasks

Being a general and technical manager, I was involved in a day-to-day operation involving resource management, bid evaluation, preparation of technical proposals, communications with clients, and building officials.

REPRESENTATIVE PROJECTS

1. United Arab Bank. Business Bay, Dubai. (January 2018 to May 2019)

Residential Tower comprises 4B+PR+G+2P+16F. SSE appointed by WSP to conduct peer review. I performed the following Engineering task:

- I reviewed the project design criteria.
- I reviewed the structural framing and lateral stability system of the towers.
- I reviewed the 3D Models of the towers to confirm their compliance with drawings and code requirements.
- I checked the stability and load path of basement floors for the car park as the slab was a ramp slab.
- I prepared a checking report.

2. The Peninsula Towers. Business Bay, Dubai (August 2020 till now)

The project consists of two plots A&E each plot has one tower comprised of 2B+3P+30 floors+M+R the project currently at the schematic design stage. SSE is appointed by K&A to conduct peer review. My engineering duties are limited at this stage to the following tasks:

- I reviewed the project design criteria.
- I reviewed the proposed structure system and initial sizing of vertical and horizontal elements.
- I reviewed the lateral stability system and towers dynamic properties.
- I reviewed the 3D model prepared by the project consultant.

• I reviewed the 3D independent 3D model prepared by my team.

HENRY BISHARA (20-442-52)

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

KARTHICK BOOPATHI (16-513-17)


All work experience reviewed by two licensed professionals




DISCIPLINE: CIVIL

GENERAL

 Applying To **Nevada**
Application Type **Initial - PE**
Application Date **05/03/2021**
Citizenship **India**

SUMMARY


 Engineering Experience after EAC degree
Total Engineering Experience **5 years, 8 months**
Experience under licensed engineer **4 years, 6 months**
Disciplinary Action **None reported**

EDUCATION

 Bachelors in Civil Engineering
Anna University
July 2008–April 2012
Masters in Civil and Environmental Engineering
University of Nevada, Reno
August 2014–May 2016

EXAMS

 Fundamentals of Engineering (FE)
Nevada
July 2016
Principles and Practice of Engineering (PE)
Civil Nevada
October 2020

LICENSES

 Additional Licenses **None**

KARTHICK BOOPATHI (16-513-17)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Sreedevi Infraconstructions Private Limited
Tamil Nadu (India)
Junior Engineer
June 2012—August 2013

Verified by
Arun Mohindhar
arunmohindhar@gmail.com

Experience Summary
Full-Time
Engineering: 1 year, 2 months
Experience under licensed engineer: None



TASKS

During my time at Sreedevi Infraconstructions, I served as a Junior Engineer supervising the construction of apartments. Experience gained during this time included structural and construction inspection, project scheduling, cost and material estimates, and quality control testing. I have experience in evaluating plans and project specifications and ensuring feasibility of all plans with all construction process and ensuring all activities in compliance with Quality Assurance procedures and preparing an effective schedule for all project progress according to required building codes. I also gained experience in providing guidance to labors based on the project schedule and conducting inspections to ensure construction was performed as instructed and per the plans and specifications, recommend changes and modification as per requirements when an error was encountered, preparing estimates of labor and material needs, conducting field and laboratory testes on materials to ensure compliance with regulations, maintaining detailed log of all work performed.



REPRESENTATIVE PROJECTS

Apartment building construction
Army Welfare Housing Organization, Coimbatore
June, 2012 - August, 2013

I served as a Junior Engineer performing structural and construction inspections of apartment buildings in an approximately 33 acres of land consisting of 400 apartment unit construction project for serving or retired army personnel. My role was to review the schedule and building plan and give duties to labors, calculate labor and material needs, perform building inspections, and ensure quality in all process. I also recommended design changes when certain details were not feasible and worked on design changes when a construction error occurred.

KARTHICK BOOPATHI (16-513-17)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Stantec Consulting Services Inc.
Nevada (United States)
Bridge Inspector
September 2016—March 2021

Verified by
Nicholas Cioffredi
Nick.Cioffredi@stantec.com

Experience Summary
Full-Time
Engineering: 4 years, 6 months
**Experience under licensed engineer:
4 years, 6 months**

TASKS

During my time at Stantec, I served as a bridge inspector (National Bridge Inspection Standards – NBIS 23 CFR Part 650). Experience gained during this time included structural inspection and assistant project management. Inspection experience includes structures in Nevada, Colorado, and North Dakota through statewide contracts. Inspections included element level, NBIS ratings, maintenance recommendations for structures, and load ratings. Field analysis included investigation and analysis in evaluating compliance and deterioration for condition, capacity, and serviceability for public use. Deficiencies include but are not limited to flexure, shear, and torsional related distress, scour analysis, and safety/serviceability compliance. Inspection types include routine, non-destructive testing, fracture critical, and scour inspections. I used sound engineering judgement and basic field calculations to determine if deficiencies observed in primary structural members, such as shear and flexure cracking in conventionally and prestressed concrete members, or fatigue cracking, section loss, and distortion in steel members were sufficient to warrant further structural analysis, load rating and posting, or potential structure closure. All the above work was or is being completed under the direct supervision of a licensed professional engineer in the state of Nevada and other licensed engineers in various states.

REPRESENTATIVE PROJECTS

NDOT Statewide Bridge Inspection and Analysis Services

Bridge Inspector - 2016, present

I am serving as a Bridge Inspection Team Leader for NBI inspections as well as assisting with the project management for Nevada statewide bridge inspections. I perform bridge inspections in the state of Nevada on over 2000+ bridges. I schedule and plan bridge inspections to complete the inspections in a safe and time efficient manner. I review the bridge inspection reports to ensure the information in the report is accurate and satisfies the DOT, NBIS, and AASHTO guidelines. I perform routine, fracture critical, and special inspections per the NBIS and DOT requirements. I analyze the bridges for structural defects and determine critical issues within the structures. I elevate the critical findings and recommend maintenance repairs of the affected element in the structure to the DOT as necessary.

Steamboat Creek Bridge – Rhodes Road

Reno, Nevada

Bridge Inspector – May 2018

I was part of a team that performed an in-depth inspection of a 16.5' long timber bridge over Steamboat Creek in Reno, Nevada. I analyzed the structure for general deterioration and deficiencies in the timber members, and also performed a scour inspection for the substructure units. I prepared an inspection report that was submitted to the Washoe County. I also developed a CAD sketch that detailed defect and structural measurements that was later used for the load rating and load posting of the structure.

Oddie Boulevard Pedestrian Bridge Condition Assessment

Reno, Nevada

Bridge Inspector - September 2018

I performed an in-depth inspection of a steel arch pedestrian bridge over Oddie Boulevard in Reno, Nevada for the Regional Transportation Commission (RTC). I analyzed the concrete deck and steel arch members for structural deficiencies and deterioration. I performed the inspection using both visual and NDT methods, an Infrared Camera technology to assess the defects in the concrete deck and an Ultrasonic Thickness Meter for the section loss in the steel arch members. I prepared an inspection report included the structure deficiencies and provided recommendations for maintenance, repairs, rehabilitation, or structure replacement based on a cost-benefit analysis.

CDOT Off-System Bridge Inspections

Colorado, United States

Bridge Inspector - Team Assistant, December 2018

I served as an inspection Team Assistant for the element level routine bridge inspections across Colorado in accordance with all CDOT, NBIS, and AASHTO guidelines. I performed a general routine inspection of the structures and recorded any deficiencies and deterioration in the structural elements. I reviewed the bridge condition reports before being forwarded to the signing PE that was later submitted to the DOT.

NDDOT LPA Bridge Inspections

North Dakota

Bridge Inspector – November 2020

I served as an inspection Team Assistant for the element level routine bridge inspections using the National Bridge Elements and North Dakota's own Agency Developed Elements and Bridge Management Elements. I performed a general routine inspection of the bridges and recorded any deficiencies and deterioration in the structural elements. I reviewed the bridge condition reports before being forwarded to the signing PE that was later submitted to the DOT.

KARTHICK BOOPATHI (16-513-17)

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

KARTHICK BOOPATHI (16-513-17)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

Start Date	End Date	Reason	Explanation
09/2013	07/2014	Unemployed	I left my job to prepare for the Graduate Record Examination (GRE) and focus on preparing myself to come to the US for my Masters Degree and also to spend some time with my family.

SANTIAGO CARRILLO (14-394-13)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
04/07/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
5 years, 5 months

Total Engineering
Experience
5 years, 5 months

Experience under licensed
engineer
5 years, 5 months

Other Experience

Disciplinary Action
None reported



EDUCATION



Non-degree
Butte Community College
June 2007–December 2011

Bachelors in Civil Engineering (EAC)
California State University, Chico
January 2012–December 2013



EXAMS



Fundamentals of Engineering (FE)
California
April 2013

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

LICENSES



Additional Licenses
None

SANTIAGO CARRILLO (14-394-13)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Landmark Construction
California (United States)
Assistant Project Engineer
May 2014—August 2014

Verified by
Santiago Carrillo (Self)

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



TASKS

Assisted with as-built drawings, processed submittals, RFI's, daily reports, attended pre-bid job walks, processed quantity takeoffs on plans, monitored and communicated with subcontractors, assisted in cost estimating and provided support to the Project Manager, Superintendents and Project Engineers.



REPRESENTATIVE PROJECTS

Chico State Storage Facility Project

CSU Chico, Chico, California, USA

Project consisted of demolition of tennis courts and construction of a storage yard for the facilities department. I was involved in ensuring safety at the site and logging contractor activities during the day in a project management software.

SANTIAGO CARRILLO (14-394-13)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Wells Construction
California (United States)
Project Engineer
September 2014—January 2015

Verified by
Santiago Carrillo (Self)

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



TASKS

Acted as liaison with architects and owners on general construction projects. Managed project budgets, submittals and shop drawings. Processed subcontracts, general contracts, and change orders. Oversaw the opening and closeout process of projects. Collaborated with office administration in a team-oriented environment.



REPRESENTATIVE PROJECTS

Auburn Grace Church Reconstruction
Auburn, California, USA

I assisted the project manager on contacting subcontractors for schedules, change orders, issues, and request for change orders. I reviewed plans and created material take-offs. I contacted suppliers to check their availability of products and made purchases of building supplies.

SANTIAGO CARRILLO (14-394-13)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Hooked On Solar
California (United States)
Draftsman
April 2015—July 2015

Verified by
Santiago Carrillo (Self)

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



TASKS

Performed drafting for solar roof panel and performed field measurements for residential and commercial properties.



REPRESENTATIVE PROJECTS

Lincoln California Rural Solar Projects

Lincoln, Placer County, California, USA

I Reviewed local City/County setbacks and permit requirements to ensure that the solar ground mount systems met the setback requirement for installation. I reviewed property owner power demand and calculated amount of solar panels needed.

SANTIAGO CARRILLO (14-394-13)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Mid Pacific Engineering
California (United States)
Staff Engineer
August 2015 – May 2019

Verified by
Todd Kamisky
toddkamisky@midpacificeng.com

Experience Summary
Full-Time
Engineering: 3 years, 9 months
Post EAC degree: 3 years, 9 months
**Experience under licensed engineer:
3 years, 9 months**



TASKS

Worked on various types of projects including residential, retail development, schools, government, forensic analysis, slope stability, and embankments. Involved in all aspects of geotechnical engineering projects, which included writing proposals, coordinating and conducting site subsurface exploration, interpreting field and laboratory test results, drafted boring and test pit logs, performed engineering analysis, and prepared geotechnical engineering reports. Reviewed structural and civil plans for conformance with specifications and geotechnical reports. Provided construction oversight during earthwork operations, materials testing, cast-in-place concrete drilled piers, monitoring wells, and asphalt paving.



REPRESENTATIVE PROJECTS

Project 1: Oak Vista Residential Development Geotechnical Investigation and Construction Testing

Project Location: Makabe Lane, Rocklin, California, USA

Project Duration: 04/01/2018 through 05/31/2019

Project Description: Geotechnical Engineering Investigation for a residential development that would consist of 63 single-family homes. I performed a field investigation at the 13.3 acre site to characterize the site, soil, rock and groundwater conditions present. I conducted preliminary research and used good engineering judgement when determining test trench locations. I sampled and logged the exposed soil and rock materials and selected samples for laboratory testing. From findings obtained, I prepared a geotechnical engineering report that contained conclusions and recommendations regarding design and construction. Additionally, I reviewed improvement and grading plans to determine compliance with local jurisdictional requirements and to check if the recommendations in the report were implemented. I attended construction meetings and reviewed construction inspection reports for compliance with plans and specifications.

Project 2: Vacaville Unified School District - Markham Elementary School Improvements Geologic Hazards and Geotechnical Engineering Investigation

Duration: 06/2018 to 07/2018

Location: 101 Markham Avenue, Vacaville, California

Project Description: Project consisted of providing a geologic hazards and geotechnical engineering report, as required by the California Geologic Survey (CGS) for the proposed demolition of existing school buildings and construction of new classrooms and a multi-purpose building. Under the direct supervision of the Geotechnical Engineer and Certified Engineering Geologist I worked on the project from proposal stage to the delivery of the report. I coordinated with school representatives and subcontractors for fieldwork operations. I was the onsite field engineer for the sampling and logging of soil borings and cone penetration test (CPT) soundings performed across the site. I used engineering judgement and decisions during the investigation when excavation conditions revealed very hard and/or cemented soils. I communicated with drilling subcontractors on methods and actions needed to successfully achieve the proposed drilling depths. Using the field data obtained I performed engineering analysis to assess liquefaction potential using Geologismiki LiqIT, a soil liquefaction analysis software. I performed analysis for design of retaining walls, pavement sections, and shallow foundations. I provided recommendations in the report for earthwork construction.

Project 3: Beale Airforce Base CATM Pea Gravel Project

Project Location: Building 2630, Beale Air Force Base, California, USA

Project Duration: 11/1/2017 through 12/18/2017

Project Description: Geotechnical Engineering Investigation for an existing firing range renovation. The project consisted of removing pea gravel and subgrade soils and construct a concrete pad for pedestrian traffic. Prior to my site investigation visit, I reviewed project plans and historic information to determine any changes that had happened to the site during the last few decades. During my field visit I logged and sampled soil and/or rock information. I used the engineering judgement to determine what lab test to perform. I performed engineering analysis using the laboratory data and engineering references to provide recommendations for construction of an exterior slab on grade pad.

Project 4: Barcelona Infill Residential Development - Geotechnical Investigation

Project Location: Tennis Lane and Barcelona Drive, Tracy, California, USA

Project Duration: 9/22/2015 -10/15/2015

Project Description: Geotechnical Engineering Investigation for a residential subdivision. I performed a field investigation to characterize the site, soil, and groundwater conditions and provide a report of my findings to the licensed professional engineer. During field sampling and logging at the site, I noticed loose and dry soil conditions in many locations, which indicated possible undocumented fills. I made onsite decisions like changing my sampling intervals and adding more test locations, as needed, to fully characterize the limits of undocumented fills. I prepared a site plan describing the locations that will need additional excavation during construction and the limits of undocumented fills. I also setup laboratory tests on samples obtained in the area of the existing undocumented fill material to determine their suitability for use as engineered fill during construction.

SANTIAGO CARRILLO (14-394-13)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

NV5
California (United States)
Staff Engineer
June 2019—February 2021

Verified by
Dominic James Potestio
dominic.potestio@nv5.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

Work on geotechnical engineering investigations and report preparation for various types of projects which include residential, commercial, public and industrial. Perform engineering analysis and design for deep foundations and retaining wall structures. Prepare civil (CAD) drawings which include site plans, foundation details, and notes. Assist in environmental and geologic field operations. Provide earthwork testing and special inspections which include concrete field sampling, nuclear density testing, epoxy dowel observation, drilled pier observation, and wedge anchors observation.



REPRESENTATIVE PROJECTS

Project 1: City of Chico Bike Path Bridge, Geotechnical Engineering Investigation

Project Location: Chico, California, USA

Project Duration: 08/2019 to 12/2019

Project Description: The project consisted of a geotechnical investigation for a proposed bicycle/pedestrian bridge to be located over Little Chico Creek in Chico, California, USA. I was the field engineer for the subsurface investigation and logged/sampled the soils exposed. Under the supervision of a licensed civil engineer I performed triaxial tests to determine compressive strength, friction coefficients, and cohesion values for design. I gathered project information and performed engineering analysis to obtain the total dead and live loads that would be used for the bridge. Using Load and Resistance Factor Design (LRFD) and California Department of Transportation (CalTrans) specifications and requirements I analyzed the lateral and vertical forces and designed deep and shallow foundations for support of the structure. I prepared tables and AutoCAD drawings with engineering recommendations for the licensed civil engineer to review.

Project 2 : Olive View Elementary School Pavement Rehabilitation Project Duration: 08/2020

Project Location: 1402 Fig Street, Corning, California

Project Description: I assisted the professional engineer in the geotechnical field investigation for the proposed school pavement rehabilitation. I conducted field hand sampling and used engineering judgement to determine where to sample. I selected samples collected for testing in lab using American Society for Testing and Materials (ASTM) International guidelines. Once lab results were reported I used local requirements and engineering calculations to provide pavement recommendations for use during construction. I prepared a geotechnical engineering investigation report for review by the licensed professional engineer.

SANTIAGO CARRILLO (14-394-13)

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

TYLER Inderwiesche (16-325-18)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
04/26/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
4 years, 10 months

Total Engineering
Experience
4 years, 10 months

Experience under licensed
engineer
4 years, 10 months

Disciplinary Action
None reported



EDUCATION



Non-degree
San Diego Community College District
August 2013–August 2014

Bachelors in Civil Engineering (EAC)
San Diego State University
August 2014–May 2016



EXAMS



Fundamentals of Engineering (FE)
California
February 2016

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

LICENSES



Additional Licenses
None

TYLER Inderwiesche (16-325-18)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

DN Tanks, Inc
California (United States)
Project Manager
June 2016—April 2021

Verified by
Michael Jason Dufresne
mike.dufresne@dntanks.com

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

TASKS

I manage prestressed concrete tank projects from design through construction across the United States and Guam. My responsibilities include the oversight of prestressed concrete tank designs to ensure compliance with project specifications. I am responsible for the schedule management and project coordination prior to and during construction. This includes the oversight, review and preparation of all project control documents. I manage project costs and determine labor, equipment and material needs. I am responsible for project cost forecasting and budgeting, managing subcontractors, and performing risk assessment to protect our company's interests. I am required to travel to project sites to ensure compliance with company programs, quality control inspections and perform coordination meetings.

REPRESENTATIVE PROJECTS

I managed the design and construction of a 0.15MG fire suppression concrete reservoir in Stovepipe Wells, CA for the National Park Service. This project had a construction duration of 18 weeks from October 2018 - February 2019. The contract value for this project was \$759,000 and was a design build project for DN Tanks. My role in this project was to first manage the design process with my colleagues to ensure the design met our constructability requirements. I provided deadlines for design submittals and reviewed final design for compliance with project specifications. I coordinated design review meetings with the General Contractor to ensure proper subbase conditions were provided in the field prior to our mobilization. I managed the material procurement, equipment and labor needs, and daily coordination with field supervisors. I was responsible for traveling to the job site to ensure design compliance and perform critical QC checks at various times throughout the project. Upon completion of the project, I was responsible for coordinating all project closeout documents and submitting final as-built designs.

I managed the design conformance and construction of 3-2.0MG potable water tanks on the island of Guam for Guam Waterworks Association. This project had a construction duration of 53 weeks from June 2017 - July 2018. I performed work as an onsite project engineer and project manager. I was responsible for performing all required QC checks throughout construction, submitting all project documents including material and design submittals, and coordinating with the Engineer of the project to review construction conformance, field QC concerns, contract changes and project scheduling. I was responsible for developing repair procedures and drafting RFIs for engineering review and acceptance. I was responsible for providing all project closeout documents, final as-built drawings and tank operation manuals.

I was responsible for the management of a tank design and specialty prestressing of a 1.25MG digester tank in Oregon City, OR. This project had a construction duration of 5 weeks from February 2019 to April 2019. I first managed the design process by providing designers with constructability requirements and deadlines for submittals. This project was particularly complex in that the specification requirements to vertically and circumferentially prestress this tank were to take place prior to roof construction. This required special design considerations that needed to be coordinated with the General Contractor and Engineer. I was responsible for reviewing the design and shop drawings for compliance with the project specifications and site conditions prior to submittal. I was required to review field produced prestressing recordings for compliance and submitted them to the Project Engineer for acceptance. I produced RFIs during the design and construction phase to confirm tank design requirements.

TYLER Inderwiesche (16-325-18)

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, Structural

Other Disciplines

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

No

TYLER INDERWIESCHE (16-325-18)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

Start Date	End Date	Reason	Explanation
06/2007	07/2013	Unemployed	I do not have any applicable work experience for this time frame. I graduated college in May of 2016.

SEAN MCNULTY (16-247-45)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
04/08/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
4 years

Total Engineering
Experience
4 years

Experience under licensed
engineer
4 years

Other Experience
1 year, 3 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering (EAC)
Missouri University of Science and Technology
August 2010–December 2015

EXAMS



Fundamentals of Engineering (FE)
Missouri
November 2017

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



LICENSES



Additional Licenses
None

SEAN MCNULTY (16-247-45)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Just A Taste
Missouri (United States)
Cook

September 2015—January 2016

Verified by
Sean McNulty (Self)

Experience Summary

Part-Time

Other: (0%)

**Experience under licensed surveyor:
None**



TASKS

As a cook I prepared and served food as a nighttime cook by myself. I managed the kitchen during dinner time rush hours. I maintained a clean and sanitary kitchen ensuring it met state guidelines for food safety and inspections. I prepared all food items in a timely and hygienic manner



REPRESENTATIVE PROJECTS

I conducted no projects at this job.

SEAN MCNULTY (16-247-45)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

U.S. Army
Missouri (United States)
Second Lieutenant
January 2016—June 2016

Verified by
**Bravo Company 554th Engineer
Battalion**
usarmy.leonardwood.engineer-
schl.mbx.hqrfi@mail.mil

Experience Summary
Full-Time
Other: 5 months
Experience under licensed surveyor:
None



TASKS

An entry level army officer course offering leadership development and education in general engineering to include: earthwork, water resources, construction methods, scheduling, and estimating, and road work.



REPRESENTATIVE PROJECTS

There are no representative projects conducted during this time. This was a military course.

SEAN MCNULTY (16-247-45)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Circle K
Nevada (United States)
Store Clerk
October 2016—December 2016

Verified by
Sean McNulty (Self)

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



TASKS

As a Store Clerk I communicated with customers and assisted them with purchased I performed tasks related to inventory and customer services as required to manage the store business. I handled all the complaints from customers with sensitivity. I maintained a clean and safe work area including restrooms, break room, office and outside lot



REPRESENTATIVE PROJECTS

There are no projects associated with this job.

SEAN MCNULTY (16-247-45)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

U.S. Army Reserves
Missouri (United States)
Platoon Leader
December 2015—December 2017

Verified by
William Gentsch
william.e.gentsch.mil@mail.mil

Experience Summary
Part-Time
Other: 6 months (25%)
Experience under licensed surveyor:
None



TASKS

As a Platoon Leader I utilized my degree in Civil Engineering to successfully manage several small scale construction projects for the U.S. Army Reserves. I managed the safety and training of approximately 20 to 30 soldiers. I planned, coordinated, and organized horizontal engineering operations (earthwork demolition, and roadway construction). I Managed and supervised multiple construction sites at a time. I implemented standards and methods to measure the effectiveness of training scenarios. I regularly evaluated soldier's performance, provided feedback and assisted, coached, and disciplined soldiers as needed. I ensured property accountability of approximately \$6,000,000 worth of construction equipment



REPRESENTATIVE PROJECTS

In Fort Leonard Wood, Missouri I managed several projects to lay and compact gravel. Many of these projects were done between June 2016 to December 2017. These projects were used to train Soldiers in utilizing their construction equipment and frequent site visits were made to ensure correct any deficiencies due to inexperience.

In Fort Leonard Wood, Missouri I oversaw a project to demolish an obstacle course from about December 2016 to June 2017. The project had many difficulties including separation of the materials and finding the most efficient way to destroy the structures with the equipment that we had.

In Fort McCoy, Wisconsin in August 2017, I oversaw the tracking and progress of several construction projects. The tracking was done in a simulated battle environment and it was my job to record and consolidate construction reports and ensure the projects were done on time. Projects included construction of a tank trail, construction of a shed, and installation of wooden siding on a building. At the beginning of every morning the Battalion Commander was briefed of the construction projects progress.

SEAN MCNULTY (16-247-45)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

American Buildings Company
Illinois (United States)
Design Estimator
December 2016—April 2018

Verified by
Erin Marie Cote
erin.cote@americanbuildings.com

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

TASKS

As a Design Estimator my primary job was to complete preliminary structural designs and estimate the cost for pre-engineered metal buildings. I created competitive, accurate and thorough estimates and preliminary designs for metal building systems in accordance with company processes and practices. I assisted the sales efforts by recognizing and implementing economical solutions in the preliminary designs. I was in customer meetings and offered valuable engineering suggestions as well as economical solutions. I used computer tools, pricing tables and overall knowledge of the products and their applications to estimate building prices. I also utilized company design tools to design the pre-engineered metal buildings. I utilized CAD software to convey to the customer what our design ideas were. The goal of the preliminary designs were to be +/- 2 percent of the final building weight. The projects were located all across the Midwest.

REPRESENTATIVE PROJECTS

I designed many small scale projects during my time with American Buildings Company. Project locations were all across the Midwest and included; Illinois, Wisconsin, Iowa, Michigan, North Dakota, South Dakota, Minnesota, Montana, Nebraska, and Kansas. The designs were never full designs but were preliminary designs that had an estimate accompanied with them. On many occasions I had to utilize code books to accomplish the preliminary designs. On large scale/complex projects I worked with a registered engineer and did the simpler components of the building while they did the more complex sections. On smaller scale projects I was the primary preliminary designer. On each project I was the primary estimator.

I assisted in the preliminary design and was the primary estimator of a large furniture warehouse in Arcadia, WI. This project took place during the last quarter of 2016. My role as the assistant was to design the smaller aspects of the warehouse (ie; purlins, girts, and secondary framing) while the Professional Engineer on staff checked my work and made the primary framing as light as possible. The warehouse included a large mezzanine. On multiple occasions I engaged with the customer on what can or cannot be loaded on the mezzanine.

I assisted in the preliminary design and was the primary estimator of a large indoor arena in Bettendorf, IA. This project took place approximately March to April of 2018. My role as the assistant was to design the smaller aspects of the warehouse (ie; purlins, girts, and secondary framing) while the Professional Engineer on staff checked my work and made the primary framing as light as possible. The indoor arena was a unique project which included multiple connections to nearby buildings and point loads on the rafters. Each of these loads needed to be accounted for as they impacted the frames greatly.

I designed various preliminary projects and did estimates for projects in the northern United States. These projects included the states on Minnesota, North Dakota, and South Dakota. On most of these project I had to account for a large snow load and on multiple occasions had to lower the pitch of the roof to eliminate the over the ridge drift.

I designed several preliminary projects in southern Illinois and the boot hill of Missouri. These projects had special design considerations due to high seismic factors. On multiple occasion I had to adjust bracing or framing size to meet code.

Various project designs that I designed included the special considerations such as torsional bracing, eave height restrictions, cranes, and large openings/doors. Many of these smaller scale projects required tweaking of the design in order to shave costs or meet customer expectations. Changes included adjusting purlin and girt sizing, adjusting roof pitch to allow smaller frames, and adjusting the type of bracing utilized.

SEAN MCNULTY (16-247-45)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

J.G. Management Systems, Inc.
Nevada (United States)
Engineer I
June 2018—July 2019

Verified by
Nicholas Raymond Aranda
nickaranda@jgmsinc.com

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

TASKS

As an Engineer I my primary job was to coordinate stakeholders in a project and push the project towards a 30 percent completion before it was handed from the Program Manager to the Project Manager. I developed conceptual project plans for the Nevada National Security Site. I Integrated with program managers, project managers, and project execution organizations to ensure deliverables were on time. I supported finalization of project deliverables and coordinated the transition from project execution to detailed design. I integrated with various teams such as Engineering, Construction, Information Technology, and Facilities Management to identify, prioritize, and de-conflict ongoing and proposed projects. I supported tasks including stakeholder coordination, meeting logistics and minutes, scheduling and performing site walk downs, and creating presentations. I assisted in the integration of new project management standards to ensure a more cohesive hand off from program management to project management.

REPRESENTATIVE PROJECTS

All projects were on the Nevada National Security Site, which is the property of the Department of Energy. All projects described will have a general overview and not go into specifics due to the sensitive nature of the projects.

I developed the 30 percent project package of an overhaul of a water system for a complex. This project took place during the entire duration of my employment here. The project included bringing a new source of water to the complex, distribution of the water, and bringing the water underground for mining operations. My role for the project was to assist and bring together engineering, estimating, construction, and program management to de-conflict any issues and provide a path forward for the project. I developed the path that the waterlines would take and ensured that the proper services were being provided by the new project. Several issues in the project that were addressed was: where did the project stop and start, what services would be included in the project (to include potable and fire suppression), what size of water tanks would be feasible and required, and the location of the water lines.

I helped develop the conceptual idea of planning a new facility. This project took place during the first quarter of 2019. My role in the project was to develop the space requirements as specified from the Unified Federal Criteria and what was currently being utilized. From that information I figured out how much square feet was needed for each type of space requirement ie. offices, bathrooms, and conference rooms.

I developed the 30 percent project package of an overhaul of an electrical system distribution of a complex. This project took place during the 3rd and 4th quarters of 2019. The project included distribution system from a new electrical main to the entire complex. My role for the project was to assist and bring together engineering, estimating, construction, and program management to de-conflict any issues and provide a path forward for the project. I developed the path that the power lines would take and ensured that the proper services were being provided by the new project. Several issues that were addressed in the project was locations of substations and where the tie-in points for the facilities would be.

SEAN MCNULTY (16-247-45)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

U.S. Army Reserves
Wisconsin (United States)
Lead Designer/Structural Engineer
December 2017 – August 2019

Verified by
Mark Herrmann
mark.e.herrmann2.mil@mail.mil

Experience Summary
Part-Time
Other: 5 months (25%)
Experience under licensed surveyor:
None



TASKS

As the Lead Designer/Civil Engineer I prepared for my upcoming deployment to the Middle East by educating myself in various design tools and contracting documents. My job included advising a Forward Engineer Support Team (FEST-A) in civil engineering matters as their lead designer. I created designs using products like AutoCAD, while conducting annual training in the countries of Kuwait and Germany. I provided infrastructure assessments while conducting annual training in the country of Germany. I also developed the standards and templates the unit to use during deployment



REPRESENTATIVE PROJECTS

I was the lead designer of a gravel parking lot while conducting annual training in Hohenfels, Germany (Aug 2019). Utilizing CAD I drew a drainage plan and I wrote the scope of work. I conducted a site visit and measured out the dimension of the earthen lot.

During annual training in Hohenfels, Germany (Aug 2019) I conducted an infrastructure assessment of several barracks facilities. I made recommendations on what to fix in the facilities. The assessment included structural, electrical, and the plumbing components of the facilities.

I was the lead designer for a refurbishment of a training facility in Atrush, Iraq, while I was conducting annual training in Camp Arifjan, Kuwait (May 2019) I created the drawings, wrote the technical specifications, wrote the statement of work, and did the Class 3 estimate. The project had to be done based off of pictures sent to me from a team that was in Iraq.

SEAN MCNULTY (16-247-45)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

U.S. Army
Baghdād (Iraq)
Structural Engineer (FCCME)
August 2019—July 2020

Verified by
Douglass Paul Newton
douglass.p.newton@usace.army.mil

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

TASKS

As the Lead Designer/Civil Engineer I provided engineering support to deployed Army units and commanders as a member with the 377th Forward Engineer Support Team (FEST-A). I worked with the United States Army Corp of Engineers on project development/design. I created contracting documents for projects ranging from 30% to 100% complete. I designed projects ranging from using design tools such as AutoCAD, Civil 3D, and Revit. I utilized design codes such as the Unified Federal Criteria in project design. I conducted infrastructure assessments and created reports detailing conditions and recommendations to further improve the existing conditions. I utilized Computer-Aided Design (CAD) to create blueprints, designs, layouts, and calculations. Analyzed survey reports, maps, and data to plan projects, established viable project scopes and timelines, and conveyed design ideas clearly to senior decision-makers.

REPRESENTATIVE PROJECTS

I was the primary designer for a project to create an aerial training range in Besmaya, Iraq. The project lasted from September 2019 to November 2019. The project included a site visit as well as several discussions engagements with the customer about their needs. This was a complex project as it involved utilizing a lot unconventional construction equipment to construct an aerial training range so the local civilians would not steal the construction material. Material included using CMUs and T-walls as markers. Stacked 20 foot shipping containers with stairs were designed to use as observation towers.

I was the primary designer and estimator for a concrete C130 parking pad in Al Asad Airbase, Iraq. The project lasted from September 2019 to November 2019. The project included a site visit and seeing existing conditions. Due to under-performing concrete in the past he technical specifications and statement of work needed to be written in such a manner that ensured the US government was receiving the best quality concrete it could.

I was the primary designer and estimator for a project to construct a concrete taxiway in Erbil Airbase, Iraq. The project lasted from December 2019 to April 2020. The project included an extensive site walk to determine the existing conditions and to determine the number of passes of aircraft at the airbase. The project was brought to a 60 percent design then I wrote a RFP package for a the project to become design-bid build. Once this was done the project team engaged the Army Corp of Engineers back in the United States to fix any problems and to help bring the project to bid

I was the primary designer and estimator for an asphalt heliport at Erbil Airbase, Iraq. The project lasted from April 2020 to May 2020. The project required coordination with any changes the Army Corp of Engineers did the to taxiway project as the heliport was supposed to tie into the taxiway.

SEAN MCNULTY (16-247-45)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Schroeder Iron Corporation
California (United States)
Assistant Project Manager
August 2020 – April 2021

Verified by
Shaun L. Kjelstrom
shaun@kjelstromassociates.com

Experience Summary
Full-Time
Engineering: 8 months
Post EAC degree: 8 months
**Experience under licensed engineer:
8 months**



TASKS

As an assistant project manager I support the project management staff as well as manage my own projects with the maintenance of the construction schedules, procurement, meeting minutes, RFI's, COR's, etc. for projects ranging in value from \$100,000 to \$2,000,000. Management of projects also includes giving direction to detailers and engineers to achieve the customers wants. I develop full understanding of the scope and interdependence of all contract document. I design small scale miscellaneous metals metal packages utilizing CAD software. I evaluate change order requests including design changes, specifications and drawing releases, and reports status. I evaluate submittals of shop drawings, structural designs, material data, and samples and takes appropriate action based upon contract specifications.



REPRESENTATIVE PROJECTS

I have designed several miscellaneous metal support structures including support structures for light systems and partition walls ensuring that the supports utilized meet the load requirements.

I have directed engineers on designs for steel stairs and railing. Giving the engineer our preferred material sizes as well as our preferred design for erectability.

Projects where I have designed steel structures include a light support system in a medical office building at City of Hope in Duarte, CA. A toilet partition support in the new Van's headquarters in Costa Mesa, CA. Designs included preliminary calculations to ensure that the support steel can be utilized.

Projects where I directed an engineer in stair and railing design include a retrofit of an existing stair that will extend the existing stair to the roof level. The existing guardrail and handrail was to be demolished and replaced with new railing that is to be designed by the engineer. Sizes of the railing was determined by myself and given to the registered engineer to complete calculations. This project is currently on going and in Los Angeles, CA

In multiple projects I have directed detailers to create shop drawings that met the design agencies intent. This including doing preliminary calculations to size steel to the appropriate size and guiding the detailer to detail the most erectable solutions.

SEAN MCNULTY (16-247-45)

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

NICHOLAS O'CONNOR (16-270-02)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
04/21/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
4 years, 10 months

Total Engineering
Experience
4 years, 10 months

Experience under licensed
engineer
3 years, 11 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Environmental Engineering (EAC)
University of Nevada, Reno
August 2010–May 2016

EXAMS



Fundamentals of Engineering (FE)
Nevada
April 2016

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



LICENSES



Additional Licenses
None

NICHOLAS O'CONNOR (16-270-02)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Broadbent and Associates, Inc
Nevada (United States)
Staff Engineer
June 2016—May 2017

Verified by
Matthew Herrick
mherrick@broadbentinc.com

Experience Summary
Full-Time
Engineering: 11 months
Post EAC degree: 11 months
Experience under licensed engineer:
None

TASKS

Water Quality Testing – Conducted various testing and sampling of water from well locations at Superfund Sites and remedial oil sites throughout Nevada and foothills of California. This included flow testing, water sampling for certain water constituents such as dissolved oxygen, eh, pH, temperature, and various lab tests on water chemistry for organic materials and other heavy metals.

Operational Support – Conducted various operational support for acid mine drainage site. This included flow testing, water sampling for certain water constituents such as dissolved oxygen, eh, pH, temperature, and various lab tests on water chemistry for organic materials and other heavy metals.

Reports – Performed various aspects of writing reports consisting of water analysis and recommendations for remedial sites. These reports were submitted to the health authority for review and comments.

Chronology of job responsibilities –

Started with various field work projects of sampling wells and conducting water quality analysis.

Obtained responsibility for specific project tasks (i.e. cost estimates, proposals, report writing, etc.) and various testing and analysis.

REPRESENTATIVE PROJECTS

Coeur Rochester Mine Soda Ash Study (June 2016 - May 2017) – Pershing County, Nevada. I completed water analysis and sampling of a domestic water system to identify low alkalinity levels which was causing copper and lead to leach into the potable water supply from plumbing fixtures. Conducted water chemistry analysis for dosage requirements, flow rates and final loading rate for the addition of soda ash. Once chemistry analysis was completed, I created graphs and prepared a draft technical memorandum to be submitted to the health authority for final review and approval of water system chemical addition.

Note: I received a job offer from Shaw Engineering and was not able to complete final implementation.

ArrowCreek Effluent Management Plan (December 2016 - May 2017) – Reno, Nevada, I conducted flow analysis of an irrigation system which was using effluent water for a golf course. Calculated flow rates for existing piping system and sprinkler heads for each zone. I conducted an analysis based on local databases to account for evaporations losses and evapotranspiration to calculate a water balance for the site. Calculated loading rates of water constituents of Nitrogen and Phosphorus which was used to determine the effects it could potentially have on ground water for nearby domestic wells in the area. I prepared a pre-liminary draft report following the public health authority guideline to be submitted for the golf course to be in requirements with their effluent irrigation system.

Note: I received a job offer from Shaw Engineering and was not able to complete final submittal.

Leviathan Mine Superfund Site (June 2016 – May 2016) Alpine County, California. Provided operations support for treatment of acid mine drainage. I completed water analysis and sampling of acid mine drainage to identify low pH levels and heavy metal analysis. Conducted various flow measurements at location around the site and other mine drainage analysis. All data was imported into spreadsheets and these were used by project management to create reports and other studies for the regulating authority. I also worked in operational support of material procurement for the mine site. This included working with vendors and other material suppliers to support operations at the Superfund mine site.

NICHOLAS O'CONNOR (16-270-02)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Shaw Engineering
Nevada (United States)
Staff Engineer
May 2017—April 2021

Verified by
Cody Robert Black
cody@shawengineering.com

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

TASKS

Plan Production - Production of construction plans for water and wastewater improvement facilities which included plan and profile, cross sections, site/grading plans, construction details and construction notes. Created cost estimates for various projects to be used in the bidding process. Created contract documents and technical specifications to be used during the bidding and construction phases of the project.

Calculations - Consists of preparing calculations for sewer lift stations and booster pump stations which includes NPSH calculations, head loss calculations, TDH, maximum surge, and pressure analysis. Hydraulic water modeling which consists of determining water system capacities. The majority of calculations are clarified in a design report to be submitted with a set of construction plans to the owner or public agency.

Construction Administration - Responsible for construction management for various projects including water and wastewater infrastructure projects. Projects include water transmission mains, sewer collection mains, booster pump stations, and sewer pump stations. Also responsible for working with contractors and clients in material submittals, field change orders, field directives, inspection oversight and as-built design drawings.

Chronology of job responsibilities –
Started with drafting and basic engineering calculations.

Obtained responsibility for specific project tasks such as cost estimates, design drawings, details etc.

Gained full responsibility for proposals, cost estimates, calculations, design drawings and full coordination of construction administration.

REPRESENTATIVE PROJECTS

The Meadows at Inglewood Lift Station (June 2018 - October 2018) - Fernley, Nevada. I completed hydraulic analysis of a new lift station to pump raw sewage through a force main to an existing gravity sewer system manhole using WaterCAD modeling software. This included sizing and recommending duplex pumps capable of pumping sewage to a higher elevation by determining a system curve and head losses of the proposed force main system. In addition to the pump sizing, the wet well needed to be sized to prevent excessive pump starts as well as provide emergency storage. Once the pumps and wet well were sized, I created plan and section views of the wet well, and valve and meter vaults using AutoCAD design software. To complete the plans, I added standard details and construction notes. The plans were then submitted to the city and health authority for review.

NDOW Mason Valley Fish Hatchery Well and Pipeline Project (August 2019 - August 2020) – Yerington, Nevada. I conducted a hydraulic analysis of an existing well system network which feeds non-potable water supply for fish production using WaterCAD modeling software. The hydraulic analysis was to determine which pipe size to recommend for a new well to add to the system. I analyzed the system by providing head loss calculation, pumps running in parallel system curves and a writing a technical memorandum submitted to the agency. Once hydraulic analysis was completed, I prepared design drawings of the pipeline and equipping the new well to the system. I created plan views, sections, construction notes and details using AutoCAD design software. Construction plans and contract documents with technical specifications were then submitted to the agency for public bid. Once awarded to a contractor, I provided construction support for material submittals, field inspections of pipeline installation and various other aspects of the construction process.

SVGID 12-inch Water Transmission Main (August 2017 – August 2018) – Sun Valley, Nevada. I developed plan and profiles of a water transmission main using AutoCAD software to provide potable water for a new school. The plan and profiles were created to identify areas of crossing, right-of-way acquisitions, combination air valve locations, connection points and other areas identified

on the plans to meet NAC 445A requirements. Once design drawings were finished, they were submitted to the public health authority for approval. The public agency then went to public bid for construction. Once awarded to a contractor, I provided construction support for material submittals, field inspections of pipeline installation and various other aspects of the construction process.

SVGID 15-inch Sewer Collection Main (August 2017 – August 2018) – Sun Valley, Nevada. I developed plan and profiles of a sewer collection main using AutoCAD software to provide increased capacity for a new school. The plan and profiles were created to identify areas of crossings, manhole locations, sewer lateral tie-ins, pipe slope requirements and other areas to help the contractor during construction. Once design drawings were finished, they were submitted to the public health authority for approval. The public agency then went to public bid for construction. Once awarded to a contractor, I provided construction support for material submittals, field inspections of pipeline installation and various other aspects of the construction process.

Pershing County School District Capital Improvement Project (December 2019 – Present) – Lovelock, Nevada. I provided preliminary cost estimates to the client for funding. Once the agency could afford the project, I provided a proposal and construction cost estimate for engineering design. I developed an overall improvement design plans for parking lot restoration, drainage plans, courtyard improvements, grading plan, grading sections and construction notes and details. This consisted of creating a demolition plan of the existing areas, and creating an ADA compliant paving/grading plan. The plans and a cost estimate were submitted to the client for approval. Once approved, the public body went to public bid for construction. The next portion of work will be construction support starting in June 2021.

NICHOLAS O'CONNOR (16-270-02)

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

TRAVIS PAGE (17-368-39)


All work experience reviewed by two licensed professionals




DISCIPLINE: CIVIL

GENERAL

 Applying To **Nevada**
Application Type **Initial - PE**
Application Date **04/26/2021**
Citizenship **United States**

SUMMARY

 Engineering Experience after EAC degree **3 years, 11 months**
Total Engineering Experience **3 years, 11 months**
Experience under licensed engineer **3 years, 11 months**
Disciplinary Action **None reported**


 


EDUCATION

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

NOTE: Will have 4 years experience 5/23/2021

EXAMS

 Fundamentals of Engineering (FE)
Nevada
December 2016
Principles and Practice of Engineering (PE)
Civil
Nevada
October 2017

LICENSES

 Additional Licenses **None**

TRAVIS PAGE (17-368-39)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Odyssey Engineering INC
Nevada (United States)
Staff Designer
May 2017—April 2021

Verified by
Frank Allen Bidart
frank@odysseyreno.com

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



TASKS

Tasks and duties related to site development work I have been a part of include preliminary site layouts, grading, and utility plans. Following the approval of the site layout through administrative reviews, final plans are completed. Final plans include Demo, Site, Grading, and Utility designs. Hydrology and sewer reports are also provided. Various applications are provided for construction, such as NOI, SWPPP, and Dust Control. Accordingly with the final plans, TMWA (W-1's) plans are completed for the approval of the water infrastructure. Following the approval of plans through local jurisdiction, communicating with the contractor for final construction to fix any unexpected issues, IE: utility crossings. A final site walk through for a Drainage Certificate.



REPRESENTATIVE PROJECTS

A project I worked on was Emigrant Storage and The Wave Car Wash in Sparks, Nevada off Pyramid Highway. The project has been active from April 2019 to current. During the design process I met with the contractor, architect, and owner to discuss feasibility and cost of the project. I designed the site layout, grading, and utilities within the site. I calculated the offsite runoff to size culverts that replaced an existing drainage channel and prepare a hydrology report. I completed an NDOT encroachment permit for the work completed on NDOT Right-of-Way.

A project I worked on was Panera Bread at Legends in Sparks, Nevada. The project has been active from November 2019 to current. My role in this project was to design the site for an Administrative Review Application. Following the Administrative Review Approval, I completed the Civil Improvement permit plans. These plans include site layout, site grading, utility layouts for water, sewer, and storm drain, erosion control plan, and a hydrology display.

A project I worked on was Pioneer Meadows Village 10 Phase 2 sub-division in Sparks, Nevada. The project began April 2020 and is being reviewed by City Council on April 26, 2021. I completed all Civil Improvement Plans. These plans include Site, Grading, Utility plans, and plan and profiles for each street. I completed the hydrology report and sewer report. I designed a headwall for an existing culvert and a proposed pipe outlet. I completed applications to state and local agencies to receive final map signatures.

TRAVIS PAGE (17-368-39)

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, DUI

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.

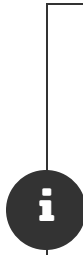
No

IVAN TREBOTICH (14-381-46)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
04/08/2021

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)
California State University, Chico
August 2008–December 2014

EXAMS



Fundamentals of Engineering (FE)
California
April 2013

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



LICENSES



Additional Licenses
None

IVAN TREBOTICH (14-381-46)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Geosyntec Consultants
California (United States)
Staff Engineer
January 2015—July 2016

Verified by
Michael Minch
mminch@geosyntec.com

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

TASKS

After working with Geosyntec as an intern for four summers, I prepared quantity takeoffs, design calculations, and grading & drainage plans using AutoCAD 3D; prepared engineering reports and documents for upcoming Landfill projects; performed field technician work for a variety of geotechnical and environmental projects which included air/gas/water testing and soil compaction testing.

REPRESENTATIVE PROJECTS

Field Engineer for Landfill

Lone Cactus Landfill, Phoenix, AZ
Construction of landfill cover for clean closure
March 2015-October 2015

Working as the CQA field manager, I oversaw the earthwork construction and performed nuclear density/moisture testing for the final closure stage of the landfill. I also performed soils sampling of import material and proposed borrow sites. I reported all findings to the CQA manager and assisted with preparing the final CQA report.

Fire and Hazardous Waste Cleanup

Butte Fire Cleanup Project, Calaveras County, CA
November 2015 - June 2016

Working as a task force leader for the cleanup of the aftermath of the 2015 Butte Fire, I was responsible for managing a construction crew tasked with the removal of hazardous debris and implemented erosion control measures to limit the spread of contaminants. Once sites were cleaned up, I prepared erosion and BMP plans to control the spread of contaminants during rain events. This included determining locations for straw wattles, coco matting, sand/gravel bags and hydroseeding.

IVAN TREBOTICH (14-381-46)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Construction Testing Services
California (United States)
Staff Engineer
August 2016 – March 2021

Verified by
Daniel Ray Ventura
dventura@cts-1.com

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

TASKS

Perform various special inspections and oversight in the field related to concrete, soils and asphalt. Inspections include logging soil for foundation drilling of piers, micropiles, tiebacks, and slurry cutoff walls. This includes classifying soils, verifying proper drill and embedment depths are met, observing proper installation, performing proof and performance load testing, and tieback creep tests. Also performed field tests on bentonite slurry to verify correct consistency per project specifications.

For soil and asphalt inspections, I would perform nuclear density/moisture tests and material sampling. In the lab, I would run proctors, sieves, and atterberg limits to verify field observations. Prior to concrete placement, I would review concrete mix designs for conformance to plans and specs. When concrete did not meet strength, I would perform schmidt hammer hardness testing and/or coring of compression samples at low strength areas per the structural engineer's direction.

REPRESENTATIVE PROJECTS

Geotechnical Oversight of New School Buildings

Ohlone College Academic Core Buildings (ACB)
Geotechnical observation for drilling of rock anchors and piers for (3) buildings
August 2016 - July 2017

I was the geotechnical field engineer for this project. I performed soil classification and logging for the drilling of approximately 60 rock anchors (micropiles) and over 150 piers down to depths of 100 feet below ground surface. I observed drilling operations and verified that minimum rock embedment depths were met. I observed rock anchor load testing and verified that anchors were locked off to correct design loads upon completion of proof testing.

Geotechnical Oversight of Storage Tank

Pacifica Wet Weather Equalization (EQ) Basin, Pacifica, CA
Construction of slurry walls and micropile foundation
August 2017 - December 2018

I was the geotechnical field engineer for the construction of a 2.1 million-gallon wet weather flow equalization basin. I logged and monitored soil & bentonite slurry for the excavation of a perimeter reinforced concrete cut off wall and subsequent micropile foundation for the basin's foundation. During slurry wall drilling, I would log changes in soil, classify soil, collect samples, verify embedment depths into clay layer, and monitored bentonite slurry by testing for viscosity, pH, and unit weight. During micropile drilling, I logged soil, verified correct reinforcement/drill depths, and observed proof & performance load testing for each pile. Upon completion of the project, I assisted with review and preparing documentation for the final affidavit.

Structural Special Inspections - Field Engineer

75 Howard St. , San Francisco, CA
Special inspections for construction of 23-story mixed-use high rise
November 2018 - March 2021

I was the staff engineer on this project. I performed oversight for the special inspections during the construction of a new high rise in downtown San Francisco. I reviewed daily reports regarding PT tendon and rebar inspections, concrete and shotcrete inspections, anchor bolt inspections, welding inspections, and pull/torque inspections of embedded bolts. I reviewed concrete mix designs, break results, and stressing reports for conformance with plans and specs. I attended weekly meetings and prepared weekly inspection summaries for the client. Upon closeout, I assisted with preparing and reviewing the final affidavit.

IVAN TREBOTICH (14-381-46)

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, Surveying

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

SHUVEKSHA TULADHAR (16-816-07)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL


 Applying To **Nevada**

Application Type **Initial - PE**

Application Date **03/30/2021**

Citizenship **Nepal**



SUMMARY



 Engineering Experience after EAC degree

Total Engineering Experience **5 years, 6 months**

Experience under licensed engineer **2 years, 9 months**

Disciplinary Action **None reported**


EDUCATION

 Meets NCEES Engineering Education Standard

Bachelors in Civil Engineering
Tribhuvan University
November 2008–December 2012

Masters in Civil Engineering
University of Texas, Arlington
August 2015–December 2017

EXAMS

 Fundamentals of Engineering (FE)
Texas
August 2016

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

LICENSES

 Additional Licenses **None**

SHUVEKSHA TULADHAR (16-816-07)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

R & R Engineering Consultancy Pvt.
Ltd.
Bāgmatī (Nepal)
Civil/Structural Engineer
November 2012—August 2015

Verified by
Rajan Suwal
rajan.suwal.rnr@outlook.com

Experience Summary
Full-Time
Engineering: 2 years, 9 months
Experience under licensed engineer:
None

TASKS

I worked as a Civil/Structural Engineer at R & R Engineering Consultancy Pvt. Ltd. from November 2012 to August 2015. My main responsibilities are the structural analysis and design calculations for reinforced concrete buildings and foundation structures in compliance with standard codes (Nepal Building Code 2012, Indian Standard – 456: 2000, Indian Standard – 875: 1987, Indian Standard 1893: 2002, SP 34: 1987, SP 16:1980) under the supervision of a Sr. Structural Engineer. My tasks and duties include:

- Performed structural analysis of seismic-resistant high-rise buildings using SAP2000 and ETABS.
- Coordinating with architects in terms of proposed solutions i.e. construction cost, technical requirements, sustainability, suitability or quality, surveillance, and review of structures.
- Preparation of design plans and structural drawings in AutoCAD, reports, and specifications.
- Monitoring of project costs and progress and liaising with clients and sub-consultants.
- Seismic retrofitting of various buildings in Kathmandu valley due to damages from Earthquakes (25 April 2015 and 12 May 2015).

REPRESENTATIVE PROJECTS

Structural Analysis and Design

1. Project: Hotel Emero Plaza, Kathmandu, Nepal (Mar 2015 – July 2015)

The building covers a total plinth area of about 445.373 sq. m located in Kathmandu, Nepal. The main building is a 10-story building (including a double basement), raft foundation, and piles. I worked on seismic analysis and design of building with the design of beams, columns, shear walls, and foundation design.

2. Project: Surkhet Conventional Center, Surkhet Nepal (Oct 2014 – Mar 2015)

The main building is a 6-story building on the strip, isolated and combined footing with a flat RC terrace, and a truss above the hall. I was responsible for the analysis and design of the steel roof truss, stairs, and their connection for the hall.

3. Project: Hotel Keyman, Chitwan Nepal (May 2014 – Sept 2014)

This hotel building consists of two main buildings separated by an expansion joint and are 9-story and 5-story each. My role was to analyze and seismic design of the building components such as RC beams, columns, slabs, and shear walls.

4. Project: Ayurveda Campus Building, Dang, Nepal (Apr 2014 – May 2014)

I designed a three-story campus building that consists of combined footing and lifts. My main responsibilities were to provide a structural design drawing set, project construction schedule, and bill of quantities of the materials.

5. Project: CG Hills Housing, Hattiguada, Nepal (Feb 2014 – Mar 2014)

My role was to analyze and structural design a two-story residential building with isolated footing and a swimming pool design with RC walls.

6. Project: Dadheldura Eye Hospital, Dadheldura, Nepal (Oct 2013 – Jan 2014)

This is a 5-story hospital building covering a 60 ft. x 64 ft. area. I worked on the design of the RC beams, columns, and isolated foundations.

7. Project: Omega Mall, Biratnagar Nepal (Aug 2013 – Oct 2013)

This is a commercial building and is an 8-story building with a rooftop swimming pool located in Biratnagar, Nepal. I worked on the design of the RC slabs and shear walls for the lift core.

8. Project: Hotel Annapurna View, Pokhara, Nepal (May 2013 – Aug 2013)

This hotel building is a step structure on the hills and required a significant length of retaining walls and shear walls. I designed the

retaining wall and foundations for this building along with the slope stability techniques on the hills.

9. Project: Noodle Factory Building, Bardiya, Nepal (Nov 2012 – April 2013)

My role was to design the connection for the factory equipment for the noodle factory. This is a steel structure comprising of the equipment to be mounted on the floor, ceiling, and walls.

SHUVEKSHA TULADHAR (16-816-07)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Innova Technologies, Inc.
Nevada (United States)
Design Engineer
June 2018—March 2021

Verified by
Robert Conti Naples
rnaples@innovanv.com

Experience Summary
Full-Time
Engineering: 2 years, 9 months
Experience under licensed engineer:
2 years, 9 months

TASKS

I am working as a Design Engineer at Innova Technologies, Inc. in Las Vegas, NV from June 2018 to the present. My main responsibilities are the structural analysis and design calculations for structural steel, reinforced concrete, masonry, wood, light-gage metal, and foundation structures in compliance with standard codes and local amendments under the supervision of a Sr. Engineer. My tasks and duties include:

- Design and analysis of structural components of the buildings.
- Resolve construction problems related to structural design.
- Design of stairs, railing, and its connections.
- Design of foundations and retaining walls.
- Work directly with the clients on project deliveries, project schedule, and field changes.
- Provide direct client support inquires on design compliance and quality control support as necessary.
- Review shop drawings and submittals.
- Review and answer Requests for Information (RFIs).

REPRESENTATIVE PROJECTS

Structural Analysis and Design

1) Project: MSG Sphere, Las Vegas NV (Oct 2020 – Feb 2021)

I designed and performed calculations for a temporary platform working surface that allows to assemble the catwalk structures using RISA software. These platforms were designed to be completely assembled at grade level and lifted to their final position or erected at the stadia levels using temporary supports and nodal assemblies. I worked on the pick configurations to determine the size of the catwalk panels that can be safely supported on the platforms so that the pick geometry can be maintained.

2) Project: Ford F-150 BEV Facility (Ford Rouge Center Building), Dearborn, MI (August 2020 - Sept 2020)

I worked on the connection design of the trestle framing connection, truss connection, vertical bracing connection, and moment connections. I was also involved in reviewing the shop drawings and respond to RFIs.

3) Project: 345 Park Avenue, NY (May 2020 – July 2020)

My role was to analyze and design the gravity and lateral structural system of a 3,200 sq. ft., 16-module penthouse structure supporting several large pieces of rooftop equipment, including 3 cooling towers and 3 cannon fans. The penthouse was located atop a 163' tall structure. The main gravity force resisting system consists of traditional post and beam construction utilizing a combination of HSS and Wide Flange construction.

4) Project: Pepperdine University, CA (April 2020 – May 2020)

My role was to design (2) modular structures, single-level units that support large hydronic equipment (chillers) and will be installed on a concrete base outside the building of Pepperdine University in Long Beach, CA. The modules are composed of structural steel base tubes and roof tubes and columns, a wide flange or tube base intermediates, and a light gauge metal roof deck. The entire assembly of modules will act as a unit once constructed.

5) Project: Great Wolf, Manteca, CA (Aug 2019 – Nov 2019)

I worked on the design of the facade and their connections for du--nkin donuts facade, wolf sculpture, bottle chandelier, Barnwood ceiling beam as a part of Great Wolf project.

6) Project: ASAS projects, NV & UT (Jan 2019 – Sept 2020)

I was involved in the seismic restraint design for mechanical equipment and piping in accordance with ASCE 7-10/7-16 chapter 13. These projects include seismic connection design for floor mounted, wall mounted and suspended equipment with their

connections.

7) Project Name: Juan Luis Medical Center, St. Croix, USVI (Jan 2019 – Dec 2020)

I worked on the analysis of a portable building modular 32' wide units constructed of aluminum extruded shapes with aluminum roof trusses. This project was a 56,320 sq. foot, 6-module, full-service modified MetaSpace hospital facility. I worked on the structural analysis on additional change orders and in construction assist in the design of canopies, retaining walls, and foundations.

8) Project Name: Einstein Medical Center, PA (Sept 2018 – Dec 2018)

I worked on the analysis of the portable modular 32 ft. by 148 ft units and are constructed of aluminum extruded shapes with aluminum roof trusses at a variable distance on center and are supported on pre-fabricated platforms. The platforms are supported directly on the ground. The lateral system for each portable building structure is a shear wall system. We added horizontal bracing at the bottom chord of the aluminum roof truss so that the lateral loads could be transferred to the shear walls. The walls are anchored to the ground with 4" Nylon straps and Hellix 8-66 earth anchor.

9) Project Name: Hyatt Regency, Frisco TX (July 2018 – Aug 2018)

My role was to design the ornamental guardrail, railing, and connections at dock level 00 in the Hyatt Regency at the Stonebriar Centre.

10) Project Name: Rebar Cages, San Francisco, CA (June 2018)

My role was to determine the structural adequacy of internal braces tied to core shear wall reinforcing cages and column reinforcing cages of the "Transbay Block 9" project at 500 Folsom. X-bracing at all faces of the rebar cage was provided for buckling stability of the shear wall rebar cage under its weight and for the required strength to resist bending moments due to wind loads.

SHUVEKSHA TULADHAR (16-816-07)

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, Structural

Other Disciplines

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


No

KRISHNAN ATHIPOTTA VARIAM (18-555-40)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL


 Applying To **Nevada**

Application Type **Initial - PE**

Application Date **04/16/2021**

Citizenship **India**



SUMMARY


 Engineering Experience after EAC degree

Total Engineering Experience **3 years, 10 months**

Experience under licensed engineer **3 years, 10 months**

Disciplinary Action **None reported**



EDUCATION

 Meets NCEES Engineering Education Standard

Bachelors in Civil Engineering
Anna University
July 2011–April 2015

Masters in Civil and Environmental Engineering
University of California, Davis
September 2015–September 2017



EXAMS

 Fundamentals of Engineering (FE)
California
July 2019

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

LICENSES

 Additional Licenses **None**

KRISHNAN ATHIPOTTA VARIAM (18-555-40)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

HDR Engineering
California (United States)
Geotechnical Engineer-In-Training
May 2017—March 2021

Verified by
Garrett Randall Harris
garrett.harris@hdrinc.com

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



TASKS

- I performed routine engineering assignments requiring application of standard techniques and procedures for projects with specified objectives
- I conducted field investigations and support analyses to develop design options and recommendations for large dams, levees, and other earthen structures involving seismic components;
- I conducted field inspections of construction activities, including earthwork;
- I assisted in the preparation of cost estimates and specifications for geotechnical engineering projects; and
- I worked independently on small projects and assist senior engineers on larger projects.



REPRESENTATIVE PROJECTS

o California Department of Water Resources (DWR), Oroville Dam Oroville Seepage and Stability Assessment, Oroville, CA
I was involved with developing permeability and strength properties for the embankment based on numerous laboratory and field tests including- large-scale shear tests for the shell material and consolidation-permeability tests for the clayey core. I conducted 2-dimensional seepage and stability analysis for the embankment to help understand current seepage performance and overall stability. Additionally, I developed 3-dimensional seepage and stability models to better understand the spatial variation of seepage through the core and effects of foundation under-seepage.

o California Department of Water Resources (DWR), Oroville Dam Complex- Comprehensive Needs Assessment (CNA), Oroville, CA

I helped develop geotechnical Potential Failure Mode (PFM) worksheets with nodal analysis and risk assessment using the Condition Assessment Tool for the embankment and low level outlets. Additionally I was involved in brainstorming workshops to propose measures that can address the PFMs.

o DWR, P2426 Potential Failure Mode Analysis, Sacramento, CA

I am providing support for the semi-quantitative risk analysis (SQRA) workshop for Pyramid Dam as geotechnical recorder, preparing potential failure mode analysis documents and assisting with completion of the risk analysis reports.

o SAFCA, Sacramento River East Levee Improvement, Sacramento, CA

I assisted with seepage and stability analysis for select levee reaches and Finite Element Method stability analysis for special cases of levee loading during construction. During the 2020 Phase-1 construction for Sacramento River East Levee Improvement, I provided geotechnical construction QA support for the United State Army Core of Engineers observing activities such as construction of slurry-bentonite cut-off wall, deep-mix-method cut-off wall, slag-cement-bentonite cut-off wall, and earthwork for levee rebuild. This included overseeing the contractor's construction methods, daily progress, QC testing methodology, and monitoring results.

KRISHNAN ATHIPOTTA VARIAM (18-555-40)

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

Environmental

RACHEL BLOMBERG (18-763-66)

All work experience reviewed by two licensed professionals

DISCIPLINE: ENVIRONMENTAL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
05/03/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree

Total Engineering
Experience
4 years, 4 months

Experience under licensed
engineer
4 years, 4 months

Other Experience
10 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Natural Resources
Cornell University
August 2010–May 2014

Non-degree
Sacramento City College
June 2015–August 2015

Masters in Hydrology
Colorado School of Mines
August 2015–December 2016

Non-degree
Red Rocks Community College
August 2015–May 2016



EXAMS



Fundamentals of Engineering (FE)
Nevada
November 2019

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

LICENSES



Additional Licenses
None

RACHEL BLOMBERG (18-763-66)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

*Sustainable Development Associates
New York (United States)
Water Quality and Environmental
Impact Analyst
May 2014—August 2015*

Verified by
Rachel Blomberg (Self)

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



TASKS

I quantified impacts of unlined coal ash landfills on public drinking water sources. This involved creating sampling methodology, recording field data on water quality parameters and collecting surface water samples while maintaining chain of custody procedure on all samples. During this work, the non-profit Community Science Institute recognized me for my exceptional conflict management and people skills and contracted me to mine data from various industry and governmental sources, creating their first database detailing infrastructure that could impact water quality.



REPRESENTATIVE PROJECTS

I worked on one project from May 2014 to August 2015 assessing the potential impacts of a proposed methane storage facility located in solution-mined salt caverns adjacent to a lake used for drinking water supply. I took monthly water samples and submitted them to the local lab for analysis of major ions. I also wrote down water quality parameters in the field such as electrical conductance and carried out field tests for alkalinity, salinity and turbidity. It was important to get seasonal results because of nutrient turnover occurring in the lake as the temperatures changed. I used the information from these sampling efforts to calculate salt loads entering the adjacent lake and determining when the sodium chloride concentrations would surpass drinking water regulations. I used the data I collected from the surface water samples at a point source location in a mass balance calculation to determine this. Additionally, I used the data in the statistical program R to generate trend statistics on changing salt loads entering the lake.

RACHEL BLOMBERG (18-763-66)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Colorado Water Science Center, United States Geological Society
Colorado (United States)
Hydrologic Technician Student Intern
May 2015—December 2016

Verified by
Suzanne Paschke
spaschke@usgs.gov

Experience Summary
Part-Time
Other: 10 months (50%)
Experience under licensed surveyor:
None



TASKS

I worked for the USGS part time, 20 hours per week, while completing my Master of Science in Hydrological Science and Engineering from Colorado School of Mines. While there, I was recognized for exceptional quality of work in the USGS inter-laboratory semiannual comparison study and commended with a Star Award for exceeding expectations on all projects. My field duties included selecting sampling locations to research wetlands' abilities to sequester CO₂, collecting water quality field data, measuring streamflow with SonTek Flowtracker and groundwater levels with electronic gage tape. In the lab, I filtered water samples and acidified sample bottles for later chemical analysis, conducted sequential selenium extraction on soil samples, tested snow and water samples for pH, alkalinity, and specific conductance on the MettlerToledo Titrator and conducted Gran Analysis on alkalinity results.



REPRESENTATIVE PROJECTS

I used the computer program R to generate comparison statistics between runoff predictions from the Natural Resource Conservation Service and actual stream discharge data in the Rio Grande drainage basin from 1990 to present.

RACHEL BLOMBERG (18-763-66)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Colorado Department of Public Health
and Environment
Colorado (United States)
Project manager
January 2017—May 2021

Verified by
Tracie Marie White
tracie.white@state.co.us

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

TASKS

Since January 2017, I have worked for the State health department in their hazardous materials remediation program as a hydrologist and project manager. I primarily oversee the cleanup of contaminated groundwater at federal facilities throughout Colorado. This involves approving engineering design for remediation of contamination plumes, reviewing quarterly reports to assess design implementation, contaminant remediation progress, and compliance with groundwater standards and management plans, stakeholder and community engagement, providing evidence for new groundwater standards, and cross agency collaboration.

In the past few years, I have become a technical resource for sampling and analysis of Per- and Polyfluoroalkyl substances (PFAS) compounds to other employees within the state health department, and regularly provide groundwater interpretation and direct sampling methodology. As the PFAS response at my sites has progressed, I have become more involved in engineering design and implementation of novel treatment technologies to address contaminated soil and groundwater areas with the goal of protecting downgradient drinking water sources.

REPRESENTATIVE PROJECTS

I have worked for CDPHE since 2017, where I manage the environmental restoration of 10 sites that primarily consist of groundwater contamination above regulatory limits. To remediate these sites, I have worked on design and implementation of microbial dechlorination systems, vapor extraction units, and in-situ and ex-situ chemical oxidation treatment. I am responsible for ensuring these systems operate properly by reviewing reports from site operators and data collected from groundwater monitoring wells. For systems that are out of compliance, I provide technical guidance to site personnel on how to achieve remediation goals. The largest system I oversee consists of 60 monitoring wells, 130 injection wells, and two cutoff trenches with piping conveying groundwater to an above ground treatment facility. The treatment train starts with in-situ chemical oxidation (using activated sodium persulfate) followed by extracting groundwater from the cutoff trenches and further treating it by air stripping to volatilize VOCs then mixing with catalyzed hydrogen peroxide to oxidize residual contamination and finally reinjecting into upgradient wells. I review operation parameters (i.e. influent and effluent concentrations, tightness tests, contaminate degradation products, MNA metrics for 1,4-dioxane) from this facility quarterly to ensure it is operating as intended and track progress towards meeting regulatory goals. I have addressed multiple lab analysis and operation issues such as iron scaling within the treatment system, which was inhibiting closure of the valves and causing incomplete treatment. Following my diagnosis, I counseled the facility to change the valve and run a descaling solution through the system, solving the problem. In another instance, samples submitted for VOC analysis were experiencing effervescence, which was causing all of the results to be rejected. Based on the analytical data, I determined that the acid in the sample bottles was reacting with the elevated bicarbonate levels in the groundwater. I directed the facility to stop acidifying their samples and instead submit them under a shortened 7 day holding time, which resolved the issue. I also manage two smaller VOC sites that are being remediated by enhanced reductive dechlorination (ERD) via microbial degradation. I am responsible for reviewing quarterly biogeochemical data such as negative redox potential, anaerobic conditions, positive TOC, and sufficient DHC cell count to ensure the ERD system is operating properly. However, after acquiring these sites, I recognized that neither operate properly. For one, a critical issue I identified is low permeability of the subsurface, which is inhibiting delivery of the microbes and associated nutrients to the target zone. To resolve this issue, I suggested an alternate remedy, electrical reductive dechlorination, that can overcome this low permeability issue by generating a low-voltage gradient electric field between electrodes. This new technology was selected as the alternate remedy, and a work plan is currently being prepared to install a pilot.

The remainder of my sites revolve around Per- and Polyfluoroalkyl substances (PFAS). I have been an integral part of CDPHE's response to this national issue by collaborating with the Air Force in the CERCLA process to determine: ideal sample locations for assessing nature and extent of contamination; interpreting groundwater and hydrogeological data regarding flow regimes; and conducting site visits to ensure sampling and drilling procedures are carried out in accordance with the quality assurance project plan. I analyze the results from these investigations to assess potential downgradient receptors. When I identify compliance issues, I elevate this to upper management to hasten remediation response and collaboration with local health departments to protect the public, and to the Water Quality Control Commission to assist their decision making in creating and instituting a new

site-specific groundwater standard.

Currently, two of my PFAS sites are moving to the remedial investigation (RI) phase. I have ensured that off-base drinking water wells with contamination and anomalous groundwater hot spots without a known source area have been incorporated into the relative risk site evaluations, which has elevated the funding priority of these projects. I am also providing technical direction on data interpretation from groundwater-surface water interaction sampling locations, and on novel pilot studies for PFAS contamination which include: a horizontal treatment well, a permeable reactive barrier, soil washing, soil stabilization, and a study to assess the efficacy of using a passive diffusion bag sampler rather than low flow sampling.

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

Environmental

Other Disciplines

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

No

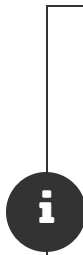
Electrical

WESSEN LIGHT (17-205-10)

All work experience reviewed by two licensed professionals

DISCIPLINE: ELECTRICAL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
04/22/2021

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree

Total Engineering
Experience
4 years, 10 months

Experience under licensed
engineer
4 years, 10 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Electrical and Computer Engineering
Jimma University
November 2004–February 2009

Masters in Electrical Engineering
University of Nevada, Las Vegas
August 2012–May 2015



EXAMS



Fundamentals of Engineering (FE)
Nevada
May 2019

Principles and Practice of Engineering (PE)
Electrical & Computer
Nevada
January 2021

LICENSES



Additional Licenses
None

WESSEN LIGHT (17-205-10)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

JBA consulting Engineers , NV5
Company
Nevada (United States)
Project Manger
May 2016—March 2021

Verified by
Rick Howard Reyburn
Rick.Reyburn@nv5.com

Experience Summary
Full-Time
Engineering: 4 years, 10 months
Experience under licensed engineer:
4 years, 10 months



TASKS

As a project manger, I am responsible for writing proposal, financial budgeting , resource allocation to other team members and coordination with client through the life time of the project. As electrical designer / consultant, I am responsible for electrical calculations, lighting/power device specification and preparing permit set drawings. I am also responsible to design per local code requirements and review/coordinate with other consultants to comply with all required electrical codes. I will coordinate /consult contractors through the life time of the project. I am responsible for continuous site visits to make sure everything is built per the code.



REPRESENTATIVE PROJECTS

I worked and still working as an electrical designer and project manager for different hospitality, health care and school facilities. The work that i am involved in consists of remodels, build outs, core & shells and new ground up builds. Here are some of the major projects I worked on;

Project: Wynn Paradise Park Phase 1 and Phase 2

Date: August 2, 2017 to December 2020

Location: Wynn Las Vegas, Las Vegas, NV 89109

I was the electrical designer for this project and I was responsible for the following scope of works;

Design the electrical power distribution system to support the building systems and equipment loads. Services will be roughed-in to locations determined by the appropriate vendors, suppliers and Owner selected consultants.

Prepare calculations to demonstrate compliance with the applicable energy codes for the electrical systems using the mandatory and prescriptive requirements as outlined. International Energy Conservation Code (with local amendments) has been assumed to be the basis of design.

Design the food and beverage electrical systems based on the food service consultant's rough-in documents and equipment specifications.

Design of back of house lighting systems including fixture specifications, controls and circuiting.

Coordinate with the lighting designer and interior designer for the front-of-house and specialty lighting requirements.

Coordination with specialty system consultants regarding grounding criteria and specific configuration of electrical service for sensitive electronic equipment.

Provide electrical system infrastructure design for the spa, water feature and pool equipment systems and rooms based on the water feature and pool consultant's documents.

Coordinate site utility requirements with the Civil Engineer, local electric utility and Owner's representative.

Coordination with the Fire Protection Engineer and the Fire Protection Report in order to properly develop and design the supporting electrical system.

Emergency/Standby power systems design to include review of existing generator capacity, transfer system, load prioritization, load shed criteria, and segregated emergency/legally required and optional standby distribution systems. We will coordinate the emergency and optional standby loads with the user in order to properly meet the needs of the Owner.

Lightning protection system review and design/build documentation.

Preliminary review of potential power quality issues (harmonics) and proposed passive harmonic mitigation solutions. We will not provide specific testing of systems.

Project: Las Vegas Clark County Library District – Eastside Library

Date: October 19, 2017 to April 15, 2019

Location: 2851 E Bonanza Rd, Las Vegas, NV 89101

I was the electrical designer for this project which was a new ground up library and I was responsible for the following scope of

works;

Design the electrical power distribution system to support the building systems and equipment loads. Services will be roughed-in to locations determined by the appropriate vendors, suppliers and Owner selected consultants.

Prepare calculations to demonstrate compliance with the applicable energy codes for the electrical systems using the mandatory and prescriptive requirements as outlined. International Energy Conservation Code (with local amendments) has been assumed to be the basis of design.

Design of back of house lighting systems including fixture specifications, controls and circuiting.

Coordinate with the Architect for the front-of-house and specialty lighting requirements.

Coordinate site utility requirements with the Civil Engineer, local electric utility and Owner's representative.

Project: LVVWD Solar Covered Parking

Date: March 08, 2018 to December 28, 2019

Location: 1001 S Valley View Blvd, Las Vegas, NV 89153

I was the project manager/electrical designer and the project consists of multiple carport photovoltaic systems at the LVVWD in Las Vegas, NV. The design included three (3) PV systems of approximately 2 MWAC total with the following detailed works;

Review existing systems to the maximum extent possible without demolition.

Preparation of Construction Documents, consisting primarily of drawings and drawing specifications setting forth in reasonable detail the requirements for constructing the electrical systems.

Coordination and review with the local governing authority, including response to plans check comments and review of code related issues.

Attendance of weekly coordination meetings will be by the contractor. We will, however, be available as the need arises for specific electrical related coordination matters.

Review Contractor material submittals and shop drawings.

Review of contractor provided PV system calculations.

WESSEN LIGHT (17-205-10)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



QUESTIONS

Has your original license lapsed? If yes, explain.

No

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

No

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

No

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

No

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

Disciplines

Electrical (Power)

Other Disciplines

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

No

WESSEN LIGHT (17-205-10)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS

Start Date	End Date	Reason	Explanation
03/2009	07/2012	Unemployed	Traveling and working customer services
06/2015	04/2016	Unemployed	Customer services employee at treasure island casino


Mechanical

SEAN BENEDICT ESTAYO (16-876-26)

All work experience reviewed by two licensed professionals

DISCIPLINE: MECHANICAL

GENERAL


 Applying To **Nevada**

Application Type **Initial - PE**

Application Date **04/09/2021**

Citizenship **Philippines**



SUMMARY



 Engineering Experience after EAC degree

Total Engineering Experience **4 years, 3 months**


Experience under licensed engineer **2 years, 3 months**

Disciplinary Action **None reported**


 

EDUCATION

 Meets NCEES Engineering Education Standard

Bachelors in Mechanical Engineering
Saint Louis University
June 2011–May 2016


EXAMS

 Fundamentals of Engineering (FE)
Nevada
November 2016

Principles and Practice of Engineering (PE)
Mechanical
Nevada
October 2018



LICENSES

 Additional Licenses
None

SEAN BENEDICT ESTAYO (16-876-26)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

SSA Architecture
Nevada (United States)
MEP Designer
January 2017—January 2019

Verified by
Kenneth Charles Small
ken@smallstudioassociates.com

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

TASKS

Performed as an entry level MEP designer for the duration of my probationary period and was promoted to MEP designer and performed Mechanical, Electrical, and Plumbing (MEP) design under the supervision of principal architect. I was responsible for performing initial site investigations to record relevant information that will be needed for the design, client interactions regarding MEP information, MEP design and calculations, preparing MEP construction documents, preparing engineering specifications, and addressing code comments from building department review. I also performed construction oversight of engineering work if included in the contract. I designed over 40 various renovation projects including commercial, office, retail, and restaurant. My engineering design and calculation responsibilities include calculation of heating and cooling loads, airflow calculations, duct sizing, mechanical and plumbing equipment selections, plumbing pipe sizing, water heater sizing, domestic water pressure drop calculations, electrical panel load calculations, one line diagram, and wire sizing. I also developed excel spreadsheet tools to help with the engineering calculations. My construction oversight responsibilities include pre-bid walkthroughs, submittal reviews, response to request for information, and final punch list verification. My primary MEP design responsibilities dedicated to engineering activities accounted for 90% of the time. Additional non-engineering work, which includes assistance to architectural design and drafting and marketing strategy development, accounted for 10% of my time.

REPRESENTATIVE PROJECTS

Southern Nevada Bariatrics (Las Vegas) – Single-story medical office tenant improvement:

I performed initial site investigations and recorded relevant information needed for MEP design. I coordinated owner furnished equipment with client to determine power and water requirements and prepared plumbing fixture lists and cut sheets for client approval. I performed engineering design and calculations including heating and cooling load, airflow requirements for each room, verified service life of existing rooftop equipment, duct layout and sizing, fixture unit totals of plumbing fixtures, plumbing pipe layout and sizing, water heater sizing and selection, domestic water pressure drop, electrical panel demand load calculations, and one line diagram. I prepared Mechanical, Electrical, and Plumbing construction documents including plans and specifications and addressed architect of record review comments and building department review comments. I performed construction administration duties which includes assisting principal architect with pre-bid walkthrough, reviewing shop drawings, responding to request for information, and final punch list verification.

ModernEyes Family Eye care (Las Vegas) – Single-story medical office/retail tenant improvement:

I performed initial site investigations and recorded relevant information needed for MEP design. I coordinated owner furnished equipment with client to determine power and water requirements and prepared plumbing fixture lists and cut sheets for client approval. I performed engineering design and calculations including heating and cooling load, airflow requirements for each room, verified service life of existing rooftop equipment, added a new rooftop unit to meet cooling and heating load, duct layout and sizing, fixture unit totals of plumbing fixtures, plumbing pipe layout and sizing, water heater sizing and selection, domestic water pressure drop, electrical panel demand load calculations, and one line diagram. I prepared Mechanical, Electrical, and Plumbing construction documents including plans and specifications and addressed architect of record review comments and building department review comments. I performed construction administration duties which includes assisting principal architect with pre-bid walkthrough, reviewing shop drawings, responding to request for information, and final punch list verification.

U-Swirl @ Cheyenne and Rainbow (Las Vegas) – Single-story fast-food restaurant tenant improvement:

I performed initial site investigations and recorded relevant information needed for MEP design. I coordinated owner furnished kitchen equipment with client to determine power and water requirements and prepared plumbing fixture lists and cut sheets for client approval. I performed engineering design and calculations including heating and cooling load, airflow requirements for each room, verified service life of existing rooftop equipment, duct layout and sizing, fixture unit totals of plumbing fixtures, plumbing pipe layout and sizing, water heater sizing, domestic water pressure drop, electrical panel load calculations, and one line diagram. No cooking equipment was needed in this restaurant; therefore, no kitchen hood was added. I prepared Mechanical, Electrical,

and Plumbing construction documents including plans and specifications and addressed architect of record review comments and building department review comments. I performed construction administration duties which includes assisting principal architect with pre-bid walkthrough, reviewing shop drawings, and responding to request for information.

Perfumes 4U – Premium Outlet(Las Vegas) – Single-story retail tenant improvement:

I performed initial site investigations and recorded relevant information needed for MEP design. I prepared plumbing fixture lists and cut sheets for client approval. I helped the architect of record with the lighting design. I performed engineering design and calculations including heat and cooling load, airflow requirements for each room, replaced existing air handling unit, duct layout and sizing, fixture unit totals of plumbing fixtures, plumbing pipe layout and sizing, water heater sizing, domestic water pressure drop, electrical panel load calculations, and one line diagram. I prepared Mechanical, Electrical, and Plumbing construction documents including plans and specifications and addressed architect of record review comments and building department review comments. I performed construction administration duties which includes reviewing shop drawings and responding to request for information.

SEAN BENEDICT ESTAYO (16-876-26)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Henderson Engineers, Inc.
Nevada (United States)
Mechanical Designer
January 2019—April 2021

Verified by
Jason David Zoeller
jason.zoeller@hendersonengineers.com

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

TASKS

Performed as a Mechanical designer I under the supervision of Henderson Engineers Quality Evaluation Veterans (QEV), who are licensed professional engineers, and under the supervision of Engineers of Record (EOR). Depending on project assignments, I was responsible for performing initial site investigations to assess conditions of existing Mechanical, Electrical, and Plumbing (MEP) systems and produce due diligence report for client's and designer's use. I aided project managers in client interactions regarding MEP information. I performed as Mechanical and Plumbing designer for prototype projects as well as non-prototype projects ranging from offices, banks, retail, K-12, warehouse, and storage facilities. My mechanical and plumbing design responsibilities include heating and cooling load calculations, airflow calculations including required outside air volume rate, HVAC equipment selection, preparing mechanical equipment sequence of operations and controls, duct layout and sizing, total plumbing fixture unit calculations, minimum domestic water pressure calculations required at point of connection, water service analysis, water heater sizing and selection, plumbing pipe layout and sizing, water heater sizing and selection, editing division 22 and 23 specifications, preparing mechanical and plumbing construction documents, and addressing code comments from building department review. I also performed construction oversight of engineering work including shop drawing submittal reviews, response to request for information, and final punch list verifications.

My primary MEP design responsibilities dedicated to engineering activities accounted for 100% of the time.

REPRESENTATIVE PROJECTS

Bank of America Program (Various Locations) – Renovations, Interior Fit Outs, and Ground Ups.

I performed initial site investigations to assess conditions of existing mechanical, electrical, and plumbing systems, and prepared due diligence reports for client's and designer's use. I verified mechanical equipment and devices and plumbing fixtures specified are per latest client standards. I aided project managers in client interactions regarding mechanical and plumbing information. I performed engineering design and calculations including heating and cooling load calculations, thermal zoning of rooms, airflow calculations including required outside air volume rate, HVAC equipment selection, preparing mechanical equipment sequence of operations and controls, duct layout and sizing, total plumbing fixture unit calculations, minimum domestic water pressure calculations required at point of connection, water service analysis, water heater sizing and selection, plumbing pipe layout and sizing, water heater sizing and selection, and editing division 22 and 23 specifications. I prepared Mechanical and Plumbing construction documents including plans and specifications and addressed Quality Evaluation Veteran and Engineer of Record review comments and building department review comments. I performed construction administration duties which includes reviewing shop drawings, responding to request for information, and final punch list verification.

St Anthony of Padua Addition (Las Vegas) – Building addition.

I aided project manager in coordinating with client regarding their design intentions. I researched HVAC strategies for mitigating transmission of Covid-19 virus and similar viruses including the use of HEPA or higher MERV rating filters, Bipolar Ionization, use of UV lights, and increased outside air intake and proposed it to the client. The client decided to use HEPA filters to mitigate virus transmission. I also designed energy saving measures including demand control ventilation and occupied standby setpoint strategies with the use of occupancy sensors. I performed engineering design and calculations including heating and cooling load calculations, thermal zoning and isolation of meeting rooms, airflow calculations including required outside air volume rate, Air balance calculation for the kitchen, air pressure drop calculations, HVAC equipment selection, preparing mechanical equipment sequence of operations and controls, duct layout and sizing, editing division 23 specifications. I prepared Mechanical construction documents including plans and specifications and addressed Quality Evaluation Veteran and Engineer of Record review comments and building department review comments. I performed construction administration duties which includes reviewing shop drawings and responding to request for information.

Nevada Prep (Las Vegas) – Charter School, K-12.

This project has two phases: the first phase is renovation of two existing buildings where I designed mechanical and plumbing systems; the second phase is an addition of a third two-story building where I designed the mechanical system and helped with

the schematic design of plumbing system. I aided project manager in coordinating with client regarding their design intentions and in coordinating with contractor to ensure design will be feasible under client's budget constraints. I aided project managers in client interactions regarding mechanical and plumbing information. I performed engineering design and calculations including heating and cooling load calculations, thermal zoning of rooms, airflow calculations including required outside air volume rate, HVAC equipment selection, preparing mechanical equipment sequence of operations and controls, duct layout and sizing, total plumbing fixture unit calculations, minimum domestic water pressure calculations required at point of connection, water service analysis, water heater sizing and selection, plumbing pipe layout and sizing, water heater sizing and selection, coordination with civil and structural engineers, and editing division 22 and 23 specifications. I prepared Mechanical and Plumbing construction documents including plans and specifications and addressed Quality Evaluation Veteran and Engineer of Record review comments and building department review comments. I performed construction administration duties which includes reviewing shop drawings and responding to request for information.

SEAN BENEDICT ESTAYO (16-876-26)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



QUESTIONS

Has your original license lapsed? If yes, explain.

No

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

No

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

No

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

No

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

Disciplines

Mechanical

Other Disciplines

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

No

SEAN BENEDICT ESTAYO (16-876-26)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



TIME GAPS


Start Date	End Date	Reason	Explanation
06/2016	12/2016	Unemployed	After College graduation, I moved to Las Vegas, Nevada from the Philippines and studied for the Fundamentals of Engineering exam and applying for my first job at the same time.

SAMUEL WILLIAMS (17-197-68)

All work experience reviewed by two licensed professionals

DISCIPLINE: MECHANICAL

GENERAL


 Applying To
Nevada

Application Type
Initial - PE

Application Date
04/27/2021

Citizenship
United States



SUMMARY


 Engineering Experience
after EAC degree
3 years, 11 months

Total Engineering
Experience
3 years, 11 months

Experience under licensed
engineer
1 year, 10 months

Disciplinary Action
None reported


 



EDUCATION


 Bachelors in Mechanical Engineering (EAC)
Northern Arizona University
August 2012–May 2017

REFERENCES

 **NOTE:** Will have 4 years
experience 05/12/2021


WAIVER REQUEST: NRS 625.183, item 4,
part b, "Two of the 4 years of active experience
must have been completed by working under
the direct supervision of a professional
engineer who is licensed in the discipline."

EXAMS

 Fundamentals of Engineering (FE)
Arizona
September 2017

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

LICENSES

 Additional Licenses
None

SAMUEL WILLIAMS (17-197-68)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Honeywell Aerospace
Arizona (United States)
Project Engineer
May 2017—June 2019

Verified by
Paul Owen
peowords@gmail.com

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

TASKS

While employed at Honeywell Aerospace I took part in a rotational program, working in three different roles over 2 years:

Product Design Engineer
May 2017 - May 2018

Working within the Mechanical Systems group I performed root cause analysis on failures and field issues with propulsion engines and APUs, retrofit existing hardware into new systems, and helped to support advanced technology programs/testings.

Project Engineer
May 2018 - Dec 2018

Under the HTF7000 engine group I led projects to fix existing field issues, conducted tests to establish root cause, supported new parts into production, and substantiated interval inspection extensions of the engine.

Performance Engineer
Dec 2018 - June 2019

Under the AGT1500 engine group I analyzed test data, field data, and software system models to evaluate the engine's performance in specific conditions and better define its capabilities.

REPRESENTATIVE PROJECTS

Air Cooler Radial Turbine Project
Position: Bearing and Lube System Engineer
Date: Oct. 2017 - May 2018
Location: Phoenix, AZ

Working with a research and development group, I analyzed and designed the bearings and oil lube system for a new test rig based on strict parameters and within the confines of a given space. I accomplished this by utilizing previous work done within Honeywell, textbook knowledge of mechanical systems, and group experience to best define/design these components.

HTF7000 Anti-Icing Valve
Position: Project Engineer
Dates: May 2018 - Dec 2018
Location: Phoenix, AZ

Having an established root cause of the anti-icing valve field issues, I helped identify test criteria that must be met for a sound and verifiable solution. Using a Gantt chart and other management tools, I coordinated between product engineers, testing, and suppliers. My team and I met with potential suppliers reviewing their valve designs and fatigue life testing, we identified potential design/production issues and resolutions.

SAMUEL WILLIAMS (17-197-68)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Ahern Engineering
Nevada (United States)
Structures and Mechanisms Engineer
June 2019—April 2021

Verified by
Jeffrey Lee Eckhardt
jeff.eckhardt@ahern-engineering.com

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

My time with Ahern Engineering has been 100% devoted to the engineering process, working directly with and alongside three licensed professional engineers, a PhD analyst of finite element analysis, and members of the ANSI A92 and B56.6 committees. My duties as a Structures and Mechanisms Engineer at Ahern Engineering include developing new and innovative machines, supporting the production and field machines by quickly and effectively finding solutions and improving upon legacy designs, and managing projects ensuring that all tasks are completed correctly and in a timely manner. The role I have filled within Ahern Engineering has developed from working on secondary projects and implementing engineering changes on production machines, to fulfilling a major and active role in designing, building prototypes, testing and developing new heavy forklifts that venture into uncharted areas for our company.

I have designed a toolbox within given constraints, created a new boom-to-carriage adapter, and continued to support the machines as issues arise on the production line. Most recently I have been a key component in the full design process of initial designing, testing, redesigning, and releasing a brand new machine that pushes the envelope on our total capabilities of a production Telehandler. Working hand in hand with two professional engineers and the product manager, I helped design a unique boom, configure the chassis, make all drawings, manage the prototype build, support testing, and redesign as needed.

REPRESENTATIVE PROJECTS

New 1585 Rough Terrain Forklift (Telehandler) Development

Scope: Design, build, and test a new innovative large Telehandler with the companies furthest outreach capability to date. Certifying it meets ANSI B56.6 and is ready for production.

Location: Henderson, NV

Date: September 2019 - Current

I independently designed sections of the new five section boom, conducting finite element analysis on components to ensure their structural intent with heavy loads and life cycle fatigue, configured unique components, including the transmission, to support both the new machine and existing production, and assisted in testing/validating the design intent. I oversaw and aided in building the prototype, managed supplier communication for essential components, and made independent decisions that resulted in a successful machine that exceeded expectations.

Telehandler Operator Platform

Scope: Create a safe platform that would allow the operator to use the machine independent of the main cab controls and that is adaptable to various models. Ensuring it meets any given standards of aerial work platforms, ANSI 92.5.

Location: Henderson, NV

Date: June 2019 - Current

As the head of this project, referencing our company's existing aerial work platforms and understanding the configurations of various Telehandler models, I created a new single operator design. I solely created the initial design, oversaw the prototype build, assisted in the testing and improvement of the controls software, and finalized the redesign for a product that is ready for production.

SAMUEL WILLIAMS (17-197-68)

All work experience reviewed by two licensed professionals

ADDITIONAL INFORMATION



QUESTIONS

Has your original license lapsed? If yes, explain.

No

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

No

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

No

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

No

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

Disciplines

Mechanical

Other Disciplines

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

No

22. Status of Board and Staff Assignments

Action List

BOARD MEETING ITEMS

September 12, 2019 Board Meeting

12. Administrative report by Executive Director

b. Action items related to the 2017-2021 Strategic Plan

Mr DeSart asked that dates be posted on our website of when the Las Vegas board office is staffed. **Staff**

January 16, 2020 Board Meeting

18. Discussion and possible action on Nevada specific Professional Land Surveyor exam, Nevada Revised Statutes 625.280 and Nevada Administrative Code 625.310 (4).

Target date for release of reference material and practice exam June 1, 2020. Date to be determined – based on number of exams currently scheduled for the first quarter of 2021. **Staff**

17. Discussion and possible action on board education policy as it relates to Bachelor of Science Engineering Technology degrees.

Ms Mamola to revise the board's education policy following board approval of reducing the experience requirement from six (6) years to four (4) years. **DONE**

March 30, 2021 Special Board Meeting

7. Discuss Nevada Senate Bill 155 related to State Engineer and Department of Water Resources.

Ms Mamola to work with Mr Spata and Mr MacKenzie to draft a letter of opposition to the bill. **DONE**

8. Consider updating regulations to include language about minimum standard for submittals to a public entity.

Item was referred back to PAL Committee to fully understand issues. Additional agencies have indicated they want to participate in the discussion, and we need to hear the perspective before considering any action.

April 7, 2021 Special Board Meeting

5. Discuss Nevada Senate Bill 402 related to endorsement licensure.

Decision made to stay neutral on the bill but work with Ms Fischer to have the state specific PE and PLS exams exempted. **DONE**

COMMITTEE ITEMS

PROFESSIONAL ASSOCIATION LIAISON COMMITTEE

September 28, 2020 Meeting

5. Facilitated discussion between public agencies and professionals regarding quality of engineering and land surveying documents submitted to public agencies (follow-up to March 4, 2020, May 14, 2020, and July 15, 2020 PAL Committee meeting discussions).

Each participating entity and association were asked to review and discuss internally the ideas suggested and to report back at a future meeting with more refined ideas.

Entities

Fees – incentives + disincentives

Workshops – hosted by public entities

Virtual efficiencies – doc/screen share technology + virtual meetings

Review staff capacity in relation to industry demand – outsourcing to bridge the gap

Report those who repeated submit work of poor initial quality

Industry

Education – by industry groups + PDH incentive options

Board

*Communication – key messages to wider licensee group, highlight Blue Book section on submittals
(move to Public Outreach)*

*Education – topics on engineering submittal quality, dealing with pressure from developers
(move to Public Outreach)*

*Discipline – explore options short of disciplinary action, program of training for “remedial” action,
rehabilitate repeat offenders*

(move to LegComm)

December 8, 2020 Meeting

5. Facilitated discussion between public agencies and professionals regarding quality of engineering and land surveying documents submitted to public agencies (follow-up to March 4, 2020, May 14, 2020, July 15, 2020, and September 28, 2020, PAL Committee meeting discussions).

Entities and associations asked for more time to consider ideas/options highlighted at the September 28, 2020 committee meeting

February 9, 2021 Meeting

5. Facilitated discussion between public agencies and professionals regarding quality of engineering and land surveying documents submitted to public agencies (follow-up to March 4, 2020, May 14, 2020, July 15, 2020, September 28, 2020, and December 8, 2020, PAL Committee meeting discussions).

Entities and associations asked for more time to consider ideas/options highlighted at the September 28, 2020 committee meeting

Topic to remain a standing agenda item for future committee meetings

7. Discuss board's updated Strategic Plan—goals and strategies related to PAL Committee and discuss possible tactics/action items.

Goal 2: Licensure – Strategy (5): *Provide options to meet land surveyor educational requirements*

Consider forming sub-committee to contact with UNLV Dean of Engineering about creating a minor in land surveying

Additional items:

Ongoing review and update Electronic Submittal/Digital Signature guide based on feedback/issues from receiving entities

Present *Strategies* identified from Strategic Plan refresh to the committee to develop *Tactics* **DONE**

ADMINISTRATIVE PROCEDURES OVERSIGHT COMMITTEE

November 4, 2020 Meeting

5. Discuss Nevada Revised Statute 622.234 related to written internal controls for board expenditures.

Memorialize attestation process in Board Policies (and Board Manual) and present to APOC **DONE**

8. Consider requiring third-party verification of digital signatures for licensees of the board and possible role of the board in the verification process including cost participation.

Research vendors and develop selection criteria to draft RFP. Present draft RFP to APOC for consideration. **DONE**

March 30, 2021 Meeting

4. Discuss updated financial policy related to Nevada Revised Statute 622.234 and written internal controls for board expenditures.

Financial policy update approved by committee and recommendation to adopt will be made to the board. To be added as an agenda item at the next regular board meeting. **DONE**

5. Discuss third-party verification of digital signatures for licensees of the board and possible role of the board in the verification process including cost participation.

After review committee to recommend against cost participation to the full board. Monitor state progress

on listing of approved Certificate of Authority providers. **DONE**

Continue to monitor other states regulations relating to third-party verification requirements. **DONE**

6. Consider executive director work performance and salary.

Committee to recommend to the board a salary increase to the board based on work performance.
Consider proposed budget for fiscal year July 1, 2021 to June 30, 2022. **DONE**

7. Consider proposed budget for fiscal year July 1, 2021 to June 30, 2022.

Proposed budget presented accepted by committee and recommendation to approve will be made to full board. Consider proposed budget for fiscal year July 1, 2021 to June 30, 2022. **DONE**

9. Consider interim Special Board Meetings, in the months between regularly scheduled meetings, to expedite consideration of initial licensure applications.

Committee approved consideration with caveat that agenda be limited to only applications only. **DONE**

10. Consider strategies and tactics associated with board strategic plan goals.

Staff to propose tactics for committee consideration. **DONE**

Additional Items:

Review board *Rules of Practice* (following regulation update)

PUBLIC OUTREACH COMMITTEE

January 6, 2021 Meeting

5. Consider and discuss tactics and action items for Public Outreach Committee related to updated Strategic Plan

Draft *Tactics* from committee discussion

7. Discuss possible board role in continuing education opportunities related to the quality of plan submittals, consider the information discussed at PAL Committee meetings

Consider regulation about minimum standard for submittals to a public entity **DONE**
(move to LegComm)

Develop messaging relating to quality of plan submittals (and from PAL)

8. Consider and discuss next six to twelve months public outreach/social media efforts.

Review metrics from Vogel Designs to measure return on investment of the program **DONE**

Consideration of available resources **DONE**

Local school districts be informed if/when the Speakers Bureau on the board website is in place to as a resource for presenters on STEM topics in local schools.

Ease of accessibility of Statutes and Regulations, particularly revisions, on board website **DONE**

March 10, 2021 Meeting

5. Discuss public communications analytics that were presented to the board at its January 14, 2021 regular board meeting.

Remove *Public Outreach* line item from proposed FY 2021/2022 and replace with *Communications*. **DONE**

Reduce annual resource allocation specific to social media to between \$3k-\$4.5k. **DONE**

Continue to monitor social metrics for comparison against previous campaign.

7. Consider and discuss next fiscal year public communications/social media efforts and budget needs.

In recap of campaign with Vogel seek advice on tactics – based on what has been learned from the campaign – to support the revised strategies of the board

LEGISLATIVE COMMITTEE

Legislative Committee Meeting – April 16, 2020

4. Discuss potential changes to Nevada Administrative Code chapter 329 related to perpetuation of corners

NAC 329 and NRS 327 regulations to be included in the next printed version of chapters 625, 329, and 327.
Staff

Legislative Committee Meeting – May 5, 2020

4. Consider the following changes to Nevada Revised Statute 625, 327

NRS 625.175—discipline specific vs PE state (discipline specific language added in 1975, AB 604—Committee on Judiciary) --on hold until we can discuss with our NCEES counterparts at a future NCEES meeting. Ms Mamola to contact former board chair Roland Westergard for board history perspective.
Partially Done, no info available from Westergard.

NRS 327—Nevada Coordinate System; Geographic Names--waiting for NALS to provide proposed changes

to NRS 327 and will work to include in board's bill draft request.

Legislative Committee Meeting – November 4, 2020

5. Discuss proposed NAC 625.310(4), requiring engineering applicants to pass a short exam on chapter 625 of NRS and NAC.

Short exam on chapter 625 of NRS and NAC to be updated by staff (periodically) and submitted to LegComm for approval.

Hard copy format of Chapters 625, 329, and 327 to be produced and made available on request. Request section to be added to website.

6. Discuss proposed NAC 625.310(5), requiring land surveyor applicants to pass a 2-hour exam on Nevada laws and procedures for practice of land surveying.

Contact "Western States" boards regarding PLSS quotient in state specific exams. **DONE**

9. Discuss 2-hours of ethics and 1-hour Nevada laws and rules training required to meet biennial continuing education requirements per NAC 625.430.

Adjust license renewal materials to include attestation section for compliance with revised continuing education requirements

Legislative Committee Meeting – March 10, 2021

8. Consider updating regulations to include language about minimum standard for submittals to a public entity. (Discussion Only)

Mr Spata suggested the item be added to a future board meeting agenda for discussion by the full board. **DONE**

10. Discuss Nevada Senate Bill 155 related to State Engineer and Department of Water Resources.

Ms Mamola to contact former State Engineer (and former Board chair) Roland Westergard regarding availability to answer questions at tomorrow's board meeting. **DONE**

Additional items:

Present *Strategies* identified from Strategic Plan refresh to the committee to develop *Tactics*

Update on R141-20P

From POC - Path to licensure for teaching professors and PHDs – consideration of waiver for FE/PE

From POC - Consider regulation about minimum standard for submittals to a public entity

From PAL - Explore options short of disciplinary action, program of training for “remedial” action, rehabilitate repeat offenders relating to poor or incomplete submittals to a public entity

State specific PLS exam review and consideration of two options (one for Western States comity applicants and a second for initial applicants and comity from outside the west) after review of PLSS content of other Western State specific exams

Further review of NAC 625.610

- section 10 for “verifiable” requirements associated with digital signature
- section 13 for further clarity in revision of original plans prepared by another licensee

Further review of NAC 625.611

- consideration of verbiage relating to electronic submittals (format details)
- relating to completeness or minimum standard for a plan set submittal (details beyond admin requirements)

Consideration of additional affidavit requirement for license renewal

- relating to NRS 625.183.2 (a) / NRS 625.270.2 (a) / NRS 625.410.4

SPECIAL SUB-COMMITTEE (PLS Standards of Practice)

December 9, 2020 Meeting

3. Discuss regulations related to standards of practice for land surveying, refer to Addendum A for list of regulations.

Regulations identified for possible amendments. **DONE**

January 20, 2021 Meeting

3. Discuss regulations related to standards of practice for land surveying, refer to Addendum A for list of regulations.

Research and present other states language and format of regulations similar to NAC 625.666 / 668 / 740. **DONE**

February 25, 2021 Meeting

3. Discuss regulations related to standards of practice for land surveying, refer to Addendum A for list of regulations.

Review statutes relating to PLS and identify regulatory gaps.

Mr Cormier to forward list of issues commonly seen PLS submittals in southern Nevada.

Mr Gingerich to connect with Mr Handrock (Washoe County Surveyor) for list common issues seen in northern Nevada submittals.

Staff to format issue list and forward to other Nevada reviewing entities for input and comment.

Next meeting to be set after statute gap analysis and feedback received on common issues.

SPECIAL SUB-COMMITTEE (NCEES Western Zone Interim Meeting Planning)

April 19, 2021 Meeting

3. Discuss hosting of NCEES Western Zone Interim meeting in Nevada, May 19-21, 2022.

Possible lunch/dinner speakers

- Ms Mamola to contact Edgewood Tahoe for recommendations
- Mr Matter to forward name of Lake Tahoe/Nevada history speaker
- Ms Mamola to contact Andy Kirk (NV Cold War history) and Paul Pace (Von Schmidt Line)

Staff to work on producing a save-the-date promotional piece for WZ 2020 and video invite for NCEES Annual Meeting in August, 2020. **DONE**

Staff to forward pre-planning questionnaire/document in a MS Word to committee members. **DONE**

STRATEGIC PLAN ITEMS

Executive Summary REVISED – Approved November 12, 2020

Present *Strategies* identified from Strategic Plan refresh to respective committee to develop *Tactics*.

Format *Tactics* from committee discussions and draft supporting *Action Items* for implementation.

DRAFT *Annual Report* for APOC/Public Outreach committee review.

BUSINESS PLAN ITEMS

Electronic submittals + digital signing of documents.

System database comprehensive upgrade.

Website effectiveness.

23. Future Meeting Dates

BOARD MEETING DATES

Board meetings are typically scheduled for the second Thursday of every other month.

May 20, 2021 — Virtual

July 8, 2021 — TBD

September 16, 2021 – Las Vegas

November 11, 2021 – Reno

January 20, 2022 – Las Vegas

Future NCEES Meetings

NCEES Western Zone Interim Meetings

May 13-15, 2021 — Virtual

May 19-21, 2022 — Stateline, Nevada

May 2023 — Houston, Texas (all four zones)

NCEES Annual Meetings

August 18-21, 2021 – New Orleans, LA

24. Topics for Future Meetings

25. Public Comment