My Name

Email:
Xxxxxx

Phone:
Xxxxxx

Highly driven structural engineering graduate student with experience in research and construction. Seeking to make a positive impact on projects by continually learning and adapting to new challenges.

Education

University of California, San Diego 09/2022 - 12/2023
M.S in structural engineering
Focuses: geotechnical engineering and structural design

University of California, San Diego 09/2018 - 06/2022
B.S. in structural engineering
Magna Cum Laude, GPA: 3.961
Volunteer notetaker for Office for Students for Disabilities (01/2019-03/2020)
Civil structures focus: Steel, timber, reinforced and prestressed concrete systems.
Performed analysis and design for lateral and gravity systems. Familiar with building codes.
Used ductile and nonlinear concepts to resist earthquake loads.
Understanding of base isolation, bracings, moment frames, etc.

Recognitions

Phi Beta Kappa, Intel Scholarship

Experience

Structural Engineering Intern: KPFF Consulting Engineers Upcoming: 6/2023-9/2023

Graduate Mentor: UC San Diego School of Engineering 10/2022-Present
Counsel undergraduate engineering students on their academic journey

Summer Intern: Clark Construction 06/2022-08/2022
- Created comprehensive and accurate takeoffs in estimating department, with exposure to specialties and site utilities. Actively inspected construction drawings and requested changes and clarification from owner/architect on errors. Worked with clients to understand their goals and budget.

- Helped Clark compete in a hard bid for a 3 story building. Read carefully through drawings and specifications to understand project demands. Managed numerous trades amounting to ~$1.1 million. Invited subcontractors to bid and negotiated with them to lower their quotes, soliciting a competitive estimate for Clark. Leveled subcontractor bids, and ensured all relevant scope including permitting, structural calculation costs, etc. were covered.

- Collaborated on a project about craft labor efficiency. Observed craft workers and construction sites for inefficiencies, and delivered five solutions to Clark.
Results well received by leadership who will implement ideas in company culture workshops.

Research Intern: California State University, Fullerton 06/2017-08/2017
- Helped design a cooling system for solar panels, crucial to its effective functioning. To monitor results, tracked solar panel performance data through Matlab.
- Strong research and presentation on solar panels recognized by supervising professor.

Engineering Competitions: Science Olympiad 2012-2016
- Designed and built model structures. Analyzed loads with truss simulators.
Highest honor: Represented the state of California to compete at nationals for model bridge building and monoplanes. Placed fifth in the nation for the high load bearing and performance of bridge models.
- With acquired experience, mentored underclassmen to compete in later tournaments.

Software skills

- AutoCAD for civil drawings. SolidWorks and 3D printing.
- On-Screen Takeoff and Destini for construction estimating.
- Matlab to solve complex engineering problems, such as in structural dynamics.
- RISA and SAP2000 for structural analysis.
- Microsoft Office and Bluebeam.