

RYAN THORNTON, EIT

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OBJECTIVE

Seeking an opportunity to utilize my strong problem solving and analytical skills to creatively solve complex problems in the built environment that will serve an impact beyond a building's footprint.

EDUCATION

Master of Science, Architectural Engineering
California Polytechnic State University, San Luis Obispo

3.78 Cumulative GPA
June 2021

Bachelor of Science, Architectural Engineering
California Polytechnic State University, San Luis Obispo

3.79 Major GPA
June 2020

RELEVANT COURSEWORK

- Concrete Design / PT Concrete
- Steel Design
- Timber and Masonry Design
- Deep Foundations / Lateral Retaining Sys.
- Nonlinear / F.E.M. Analysis
- Seismic Design and Analysis
- Advanced Structural Systems (P.B.D.)
- Geotechnical Earthquake Engineering

QUALIFICATIONS

- Autodesk AutoCAD / REVIT
- SAP2000 / ETABS
- Mathworks MATLAB
- Microsoft Suite / Bluebeam

LEADERSHIP / WORK EXPERIENCE

AHBL Inc.

Project Engineer I

July 2021 – Present

- Completed the structural design of a 200,000 SF concrete tilt-up warehouse including the entire lateral, continuity (subdiaphragm), and gravity designs
- Led the light-frame wood schematic design effort for a proposed multi-family podium construction
- Coordinated with builders and contractors to revised various structural designs that worked through supply chain issues and material shortages spanning across a variety of project types
- Modeled various staging structures in RISA 3D, then compiled the results and summarized the recommendations in a succinct technical memo

Structural Engineering Intern

July 2019 – Sept. 2019 / July 2020 – Sept. 2020

- Engineered the complete lateral and gravity systems of a waterfront private residence on 40' deep H piles in liquefiable soils, produced structural drawings for the residence, and compiled the complete package for permit submittal, receiving no permit comments
- Proactively sought to receive advanced tasks on various projects that challenged me to think of creatively, such as providing ring structure, constructable on site to shore the reinforcement for an 11' diameter concrete ring beam

ACE Mentor Program of America

ACE Structural Engineering Mentor – Tacoma Chapter

Oct. 2021 – Present

- Teach high school students about structural engineering and lead them through a year long design project that will give them a mockup of what the industry entails
- Create interactive activities that engage students to demonstrate basic engineering principles

Cal Poly EERI Seismic Design Competition Team

Analysis and Materials Team Captain – San Luis Obispo, California

Oct. 2017 – Mar. 2020

- Modeled a 19-story structure in ETABS to conduct a Time History Analysis
- Constructed and instrumented a physical balsa wood tower to verify computational results
- Utilized performance metrics to iterate and optimize the tower's lateral design
- Presented a clearly and concisely the design, performance predictions, and analytical results to a panel of judges, earning a 2nd place finish in both the presentation score and overall competition