Todd Brentlinger, E.I.T

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Summary

Engineer-in-Training (EIT) and graduate of ABET-accredited bachelor's in civil engineering program backed by knowledge of engineering theories, principles, specifications, and standards. Highly motivated to secure an entry-level job where I may benefit my employer, gain experience, and expand my knowledge of the field of engineering.

Education

Graduate Coursework, Structural Engineering
University of California, Davis
September 2013 – June 2014
36 units completed toward M.S.
Cumulative GPA: 3.48

Bachelor of Science in Civil Engineering
University of California, Berkeley
August 2009 – December 2011
Upper Division Technical GPA: 3.307

Fundamentals of Engineering Exam Passed, California, October 2011 No. EIT 144769

Academic Coursework

- Structural Engineering
- Adv. Steel Design
- Bridge Design
- Adv. Reinforced Concrete Design
- Seismic Engineering
- Finite Element
- Adv. Structural Analysis
- Project Management
- Structural Dynamics

Graduate Project Experience

Bridge Design Team Member (UC Davis) April-June '14

- Conducted a preliminary slab-on-girder bridge design given a set of functionality, seismic, and site constraints under AASHTO design loads. Collaborated with two other team members in design calculations of the superstructure as well as the end abutments, including pile foundation, culminating in a technical report.

Seismic Design Team Member (UC Davis) Jan-March '14

- Collaborated with two other team members in designing a building based on ASCE-7 as well as analyzed the variations and issues with the design of the buildings for earthquake loads using different methods including pushover analysis and ASCE-41 code.

Adv. Reinforced Concrete Programmer (UC Davis) Jan-March '14

- Designed a program implemented in MATLAB for the moment-curvature analysis of confined and unconfined concrete columns through the application of Mandar's model culminating in a technical report including a validation and use of the program for two concrete column designs.

Additional Skills

- Strong analytic and problem-solving abilities
- Good written and oral communication skills
- Visual Studio
- Able to function well as an independent worker or as a member of a professional engineering team.
- Proficient in C++, MATLAB
- Advanced knowledge of AutoCAD
- Proficient in Microsoft Office Applications – Excel, Word, PowerPoint etc.