

Alyssa Michelle Stangl

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OBJECTIVE To obtain permanent employment as an Architectural Engineering Structural Designer

EDUCATION B.S./M.A.E. Architectural Engineering | The Pennsylvania State University | *Structural Option*
Estimated Graduation: May 2014 | ABET Accredited Program | EIT upon graduation
Cumulative GPA: 3.99

COURSE PROJECTS

- **Introduction to Structural Analysis:** Developed a model of the structure in Kunkle Lounge, and performed a structural analysis using STAAD.
- **Introduction to Steel Design:** Redesigned an existing wood structure using steel components, and redesigned an existing steel structure using wood components. Project included columns, beams, and connection details.
- **Computer Modeling of Building Structures:** Developed an ETABS model of building lateral systems including shear walls, moment frames, and braced frames. Analyzed structure for earthquake loading.
- **Architectural Design and Research (Fourth Year):** Designed a mixed use apartment and retail building for downtown state college. Design team worked together to create Revit Model, physical models, and rendered sketches. Project was awarded second place in the fourth year studio class.
- **Building Electrical/Illumination Design:** Designed a lighting concept and laid out electrical panels for the new Bio-Behavioral Health (BBH) building.
- **Introduction to the Building Industry:** Developed detailed schedule and estimates for BBH building.

WORK EXPERIENCE

The Pennsylvania State University - Teaching Intern

Fall 2013 – Spring 2014

- Creating supplemental course materials for AE 403 - Advanced Steel Design for Buildings.
- Participating in Teaching Intern Seminar, covering multiple teaching techniques and common methods.

Atlantic Engineering Services – Design Intern

Summer 2013

- Worked on schematic design of steel and wood structures for commercial, educational, medical, and private projects.
- Determined loads, layouts, and studied different design solutions for each project.
- Checked steel shop drawings for adequate connection design and accurate beam sizing.
- Used RAM to analyze full building structures and used STAAD, ENERCALC, and TEDDS to analyze individual elements and configurations such as stairs, canopies, etc.
- Participated in webinars including topics such as wood shear walls, fire ratings, and blast analysis.

The Pennsylvania State University - Teaching Assistant

Fall 2011 – Spring 2013

- Worked as a Teaching Assistant for AE 221 - Architectural Building Materials.
- Participated in class lectures and activities in order to grade and create effective quizzes and homework.

Mid-State Construction, Inc.- Assistant to Project Manager/ Estimator

Summer 2011 - Summer 2012

- Assisted the Project Manager with multiple projects, including schools, a library, and municipal buildings.
- Created and completed submittals, RFI's, O&M Manuals, etc.
- Assisted the Estimator in bidding projects by performing takeoffs and soliciting quotes.
- Assisted in the coordination of Subcontractors, General Contractor, and Architect.
- Worked extensively with bid documents and final construction documents.

COMPUTER SKILLS

Microsoft Office, AutoCAD 2012, AutoDesk Revit Architecture 2013, RISA 2D, STAAD, ETABS, SAP 2000, SP Column, SP Slab RAM Steel, TEDDS 2013, ENERCALC

ACTIVITIES/HONORS

- Student Society of Architectural Engineers
- President's Freshman Award Fall 2010, Sparks Award Spring 2011, & Evan Pugh Award 2012.
- Outstanding Performance in Structures Award awarded by the PSU AE department SP 2012.
- Rolling Scholarship in Engineering, Mevin H. Peters Scholarship in Engineering, & Architectural Engineering General Scholarship 2012-2014.
- Participate in tennis, Zumba, and hunting in my free time.