

Natasha M. Beck

Nbeck604@gmail.com

OBJECTIVE: To obtain a full time position at a structural engineering firm where I can contribute to the company, gain experience, and advance my career as a professional engineer.

EDUCATION: **BAE in Architectural Engineering-Structural Option**
The Pennsylvania State University, University Park, PA
5 year professional degree-ABET accredited
Current GPA: 3.21
Eligible for EIT upon graduation in May 2014

Relevant Coursework

Renaissance to Modern Architecture	Intro Architectural & Urban Theory
Architectural Acoustics	Architectural Design Analysis
Technical Writing	HVAC Fundamentals
Structural Analysis Intro	Electrical & Illumination Fundamentals
Design of Steel Structures	Indeterminate Structures
Design of Masonry Structures	Design of Concrete Structures
Geotechnical Engineering	Fundamentals of Surveying
Computer Modeling of Structures	AE Senior Thesis Project

EXPERIENCE: **Ruby+Associates: Engineering Intern, Summer 2013**

- Authored, adapted and maintained structural models in a variety of software.
- Performed structural analysis, emphasizing load determination and basic erection procedures, as well as some site logistics for heavy lifts.
- Produced calculations and narratives for calculation package submittals.
- Participated in conference calls and responded to client questions on submitted material.
- Learned and applied principles of constructability to structural design.

EEB HUB: BIM and Virtual Reality Specialist, Feb. 2011 to May 2013

- Collaborated with BIM representatives of an architecture and construction management firm to discuss and overcome model sharing and large scale visualization challenges.
- Developed interoperability workflow paths to find the path having the highest information preservation, most versatile editing, and best visual outcome to create efficient models.
- Provided visual demonstrations, presentation support for conferences and charrettes, and system support for task meeting video conferences in the Navy Yard ICon Lab.
- Created full-scale Unity models of buildings and contextual Navy Yard site.
- Developed instructional and support material to post on the project's wiki page.
- Investigated information exchange between several modeling and energy analysis programs, documented the results, and interpreted the best path of information.

MTM '10 Engineering Camp Counselor, June 2010

- Mentored high school women interested in engineering and Penn State.
- Facilitated group design projects, competitions and workshops.

SKILLS:

Revit	AutoCAD	3DS Max Design	SketchUp
Inventor	Unity 3D	Autodesk VIZ	Hand Drafting
RISA 2D & 3D	STAAD	Wiki Development	
SAP2000	ETABS	RAM Structural System	

ACTIVITIES: Alliance Christian Fellowship, 2013-Current, *Bible Study Co-Leader*
Alliance Christian Fellowship, 2012-2013, *Small Group Leader*
Old Lycoming Township Fire Department, 2007-2009, *Junior Member*