

# 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:** **Bachelor in Architectural Engineering - Structural Option**

The Pennsylvania State University, University Park, PA

5 year professional degree - ABET accredited

Current GPA: 3.27

**Eligible for EIT upon graduation in May 2014**

**Relevant Coursework**

AE Senior Thesis Project

Computer Modeling of Structures

Design of Masonry Structures

Design of Concrete Structures

Design of Steel Structures

Soil & Foundation Engineering

Indeterminate Structures

HVAC Fundamentals

Architectural Acoustics

Electrical & Illumination Fundamentals

Renaissance to Modern Architecture

Intro Architectural & Urban Theory

Architectural Design Analysis

Technical Writing

**EXPERIENCE:** **Design of Masonry Structures Grader, Jan. to May 2014**

- Provide feedback and grading for homework assignments.
- Write solutions for class homework assignments.

**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.

**SKILLS:**

ETABS

SAP2000

RAM Structural System

RISA 2D & 3D

STAAD

Revit

AutoCAD

Unity 3D

SketchUp

3DS Max Design

Hand Drafting

Inventor

Wiki Development

**ACTIVITIES:**

Alliance Christian Fellowship, 2013 - Current, *Bible Study Leader*

Alliance Christian Fellowship, 2012 - 2013, *Small Group Leader*

Old Lycoming Township Fire Department, 2007 - 2009, *Junior Member*