

# Nolan J. Amos

## EDUCATION

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The Pennsylvania State University, University Park, PA - College of Engineering - ABET Accredited  
Bachelor of Architectural Engineering, Expected May 2016

## CERTIFICATIONS

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Engineer In Training (EIT) upon Graduation – Passed Fundamentals of Engineering Exam, 11/2014  
LEED Green Associate – Passed USGBC Exam 1/2015

## TECHNICAL EXPERIENCE

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- 6/2014 - Present      MEP Design Intern – Barton Associates Inc: State College, PA
- Constructed energy load models using Trace for use in studies and various projects
  - Sized pipes, ductwork and air handlers using various calculations as well as Trane Trace 700
  - Conducted building and field surveys to obtain data for future design and energy models
  - Reviewed Submittals and validated the information with specifications
  - Developed Mechanical, Electrical and Plumbing drawings for submissions using AutoCAD and Revit MEP
- 2013 - 2014      Research Assistant – Penn State Architectural Engineering Department: University Park, PA
- Developed structural teaching models from concept to design, as well as purchased materials and built models. Models helped emphasize structural practices, including specificity of connections, bending moments and truss reactions
  - Instructed second year students the theory and practice of designing concrete beams and wooden trusses. Built and tested the designs, for maximum loading
  - Assisted in organization and cleaning to maintain safe lab protocol
- Summer 2013      Project Engineer Intern – ISEC, Inc: Columbia, MD
- Reviewed shop drawings and submittals to ensure quality was met before sending drawings to jobsite
  - Marked architectural drawings with details of type of base to be installed for field engineers
  - Created a schedule of the type of base to be installed and where to be installed for cost projections and final purchase of material
  - Conducted field visits to certify field dimensions, assess construction progress, and coordinate installation with general contractor
- Summer 2012      Underground Apprentice – Patriot Coal Corporation: Fairview, WV
- Managed multiple workers on various tasks throughout the coal mine, specifically on tear down and set up of long wall mining system and maneuvering of heavy machinery
  - Helped set up air change throughout sections of the mine, included understanding MSHA standard flow rates, providing enough air to the cutting sections of the mine, and how to direct fresh air around important areas
  - Oversaw section cutting and production output of coal while on the section as well as managing airflow, machinery organization and cutting line projections

## LEADERSHIP EXPERIENCES

- Boy Scouts of America- Eagle Scout (2009)
- Junior Assistant Scoutmaster
- Order of the Arrow (2006-2011)
- Council Executive Board- Revolutionary Trails Council
  - Lodge Chief of Ga-Hon-Ga Lodge #34
  - Vigil Honor member (2009)

## STUDENT ORGANIZATIONS

- Alpha Phi Omega – President (Spring 2015)
- Service Vice President (Fall 2013)
    - Organized and Planned over 3500 Service hours
  - Sergeant at Arms (Spring 2013)
  - Recruitment Chair (Fall 2012)
- Penn State Marching Blue Band – (Fall 2014)
- Pride of the Lions Pep Band – (Fall 2011 – Spring 2013)
  - Selected for 2012, 2013 Final Four Women’s Volleyball

Planning 2016 Thru-hike of Pacific Crest Trail – (5/15 – 10/15)