

Matthew T. Neal

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Permanent Address
5125 Redwood Drive
Indiana, PA 15701
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Education

Combined Masters of Science and Bachelor of Architectural Engineering
Mechanical Option
The Pennsylvania State University, Schreyer Honors College
Graduating Class of 2014 (BAE) and 2015 (MS)
Cumulative GPA: 3.97 out of 4.00
EIT certification upon completion of BAE degree in Spring 2014

Relevant Coursework

Advanced Architectural Acoustics, Fundamentals of Acoustics, Acoustics in a Fluid Media, 2012 Rome Study Abroad Program, Advanced HVAC, Thermodynamics, Structural Analysis, Fundamentals of HVAC, Fundamentals of Electrical Systems, Architectural Design Studio coursework

Work Experience

Research Experience for Undergraduates May 2013 to Sept. 2013
The Applied Research Lab, Penn State University Park, PA

- Performed a literature review of background research
- Created and validated a computer model of a 2000 seat concert hall
- Clustered head related transfer functions using statistical methods
- Conducted subjective studies on concert hall acoustics

Student Researcher July 2012 to August 2012
The Applied Research Lab, Penn State University Park, PA

- Gathered, processed, analyzed, and presented acoustical data
- Measured acoustical properties of thermo-acoustic speakers
- Produced directivity and SPL plots in third octave bands

Mechanical / HVAC Intern May 2011 to August 2011
H. F. Lenz Company Johnstown, PA

- Developed mechanical equipment within Revit MEP
- Calculated ventilation requirements and heating loads Designed
- Sized HVAC systems, ductwork, and created diffuser layouts

Skills

Computer Programs

- Matlab
- Odeon Room Acoustics Software
- Revit MEP, Architecture, and Structure
- AutoCAD and AutoCAD MEP
- Google Sketch-Up

Activities

Essence of Joy	Treasurer	Fall 2009 to Present
The Navigators	Bible Study Leader	Fall 2009 to Present
Concert Choir	Member	Fall 2009 to Spring 2010
PSU ASHRAE	Member	Fall 2012 to Present

Awards and Honors

AE Alumni Association Scholarship	Spring 2011
Dean's List	Fall 2009 to Fall 2012
AE General Scholarship	Spring 2012
Tau Beta Pi Engineering Honor Society	Fall 2011 to Present