

# Justin Daniel Schultz

304 Brill Hall • University Park, PA 16802 • 716.880.4685 • jds417@psu.edu

AE Senior Thesis Website: <http://www.arche.psu.edu/thesis/eportfolio/2007/portfolios/jds417/>

---

**Objective:** To strengthen my professional and educational experiences with a full time position starting in the summer of 2007, with a focus on building mechanical systems and leading toward professional licensure.

**Work Experience:**

<b>Tour-Andover Controls</b> Carrollton, Texas	<b>Project Development Internship</b> <i>May-August 2006</i>
---	---

- Performed preliminary and detailed energy studies of building MEP Systems
- Generated baseline energy models and performed energy savings calculations
- Prepared detailed technical audit reports

<b>Cannon Design</b> Grand Island, New York	<b>MEP Design Internship</b> <i>May-August 2003, 2004, 2005</i>
--	--

- Actively involved in HVAC design process in healthcare, education, and sports facilities including:
  - Ave Maria University Library - design development
  - Rochester Institute of Technology field house - pool evaporation study
- Researched and implemented LEED Green building design
  - Niagara University academic building – Schematic Design
  - Researched geothermal technology and application in HVAC design
- Provided engineering management, shop drawings and submittal processing
- Manual/AutoCAD 2005 HVAC design planning and drafting

**Education:**

<b>The Pennsylvania State University</b> University Park, PA Bachelor of Architectural Engineering, Mechanical Option Projected Graduation Date: May 2007 <b>Completed F.E. Exam</b> , April 2006 - will obtain E.I.T. status upon graduation	<i>September 2002 - Present</i>
---	---------------------------------

<b>The University of Leeds</b> Leeds, England	<i>September 2005 - December 2005</i>
--	---------------------------------------

- Studies in structural design analysis and its relation to mechanical design
- Rigorous architectural studios with a focus on building design and environmental impact on society
- First-hand architectural study of European urban development

**Relevant Academic Skills:**

Architectural Acoustics	Manual Drafting/AutoCAD 2005
Advanced HVAC	Cost Estimation/Construction Management
Engineering Mechanics	Concrete, Steel, and Timber Design
Thermodynamics/Fluid Flow	Static and Material Strength
Advanced Heat Transfer	Building Solar Energy System Design
Architectural Theory/Design	Advanced Building Electrical System Design

**Activities:**

<b>ASHRAE, Penn State Student Chapter</b>	<i>August 2006 – Present</i>
<b>PSU Solar Decathlon, Mechanical Team</b>	<i>August 2006 – Present</i>
<b>Student Society of Architectural Engineers</b>	<i>August 2004 – Present</i>
<b>Penn State Lion Scouts</b>	<i>November 2003 - Present</i>
<ul style="list-style-type: none"><li>▪ Strengthened leadership and presentation skills by leading tours and panel discussions to prospective students at the University Park campus</li></ul>	
<b>Penn State Crew Team</b>	<i>September 2002 - December 2004</i>

**References:** Available upon request.