

# CHRISTOPHER A. NICOLAIS

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Portfolio (CPEP) - <http://www.engr.psu.edu/ae/thesis/portfolios/2008/can165>

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**OBJECTIVE:** Seeking a full-time mechanical design position with an innovative firm leading toward professional licensure.

**EDUCATION:** The Pennsylvania State University, University Park, PA  
Bachelor of Architectural Engineering, Mechanical option, expected May 2008  
Five year professional degree – ABET accredited  
Grade Point Average – 3.60/4.00  
Passed Fundamentals of Engineering exam, Engineering in Training upon graduation

## Awards:

Dean's List (6 semesters) Robert W. & Evelyn Kremer Memorial Scholarship (4 years)  
Davenport Family Foundation Scholarship Franklin Ruth Memorial Scholarship

## Relevant Courses:

HVAC	Advanced HVAC	Advanced HVAC Design	Sustainable Design
Architectural Acoustics	Advanced Acoustics	HVAC Control Systems	Environmental Systems

**EXPERIENCE:** **Leach Wallace Associates**, Elkridge, MD Summer 2007  
Mechanical Engineering Intern

- Conducted extensive field survey and documented existing mechanical conditions
- Designed various ductwork layouts and calculated associated static pressure losses
- Designed removal and new work of domestic water and medical gas piping
- Drafted and sized sanitary and vent plumbing risers
- Calculated building heating and cooling loads using Carrier's Hourly Analysis Program (HAP)

**Highland Associates**, Clarks Summit, PA Summer 2006  
Mechanical Engineering Intern

- Prepared cost estimates for underground gas piping using RS Means reference books
- Created and edited mechanical system details and schedules using Auto CAD 2006
- Revised many sets of pre-bid mechanical and post construction as-built drawings
- Prepared sets of edited submittals for project engineers and architects

**Greenman-Pedersen Inc.**, Scranton, PA Summer 2005  
Mechanical Engineering Intern

- Researched through ASHRAE and NFPA 13 references for project engineers
- Assisted in the drawing of HVAC, plumbing, and fire protection systems using Auto CAD 2006
- Gained experience using TRACE 700 comprehensive building analysis program
- Visited job sites and construction meetings with project managers, engineers and contractors

**Pennsylvania Department of Transportation**, Dunmore, PA Summer 2004  
Engineering, Scientific and Technical Intern

- Observed daily construction while performing inspections based on the contract documents
- Communicated with contractors and reviewed invoice submissions and material quantity calculations

**ACTIVITIES:** Interfraternity Council, Vice President of Programming Spring '06 – Fall '07  
• Fraternity Integrity Alliance – Sexual Assault Education Programming Spring '06 – Present  
Theta Delta Chi International Fraternity Fall '04 – Present  
• Recruitment Chairman Fall '05, Spring '06  
Penn State Dance Marathon Spring '05 – Present  
Mortar Board National College Senior Honor Society Spring '06 – Fall '06  
Golden Key International Honour Society Fall '05 – Present  
Order of Omega Greek Honor Society Fall '05 – Present  
Homecoming Day of Service Fall '07  
Fresh START Day of Community Service, Team Leader Fall '05