

HEATHER G. SMITH

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Education

Master of Science: Mechanical Engineering

Ohio State University Overall GPA: 4.00/4.00
Expected Date of Graduation: May 2005

Research Project and Thesis Description: Put title of thesis/research project here

Related Electives: ME 524 – Title of class
ME 519 – Title of class
CE 599 – Title of class

Papers:

Smith, H.G., Jones, S.L. "Title of Paper: Evaluation and Investigation of Design Methods."
ASHRAE Transactions, Atlanta, 2005, Vol. 1, Pt. 1.

Bachelor of Science: Mechanical Engineering

Ohio State University Overall GPA: 3.69/4.00
Date of Graduation: May 2003, cum laude

Related Electives: ME 401 – Fundamentals of Heating, Refrigeration, and Air-Conditioning
ME 425 – Energy Conservation
ME 462 – Energy Systems Design

Passed Fundamentals of Engineering Exam, April 2002

Senior Design Class, Spring 2003 – Designed the air-conditioning and heating system for the 4,000 square foot Engineering Activities Building on the Ohio State University campus in consultation with the University engineers, and assisted in overseeing the installation of all components. One of three members on senior design team.

Experience

Engineering Intern, Summer 2002, Winter Break 2002, and Winter Break 2003

Black, Hawkins, & Black, P.C., Collegetown, OH

- Calculated HVAC loads, sized ductwork, and designed layout of ductwork for several projects including the 400,000 square foot Criminal Justice Center of the State of Ohio, the School of Dentistry on the University of Miami, Ohio campus, a Post Office in Central Ohio, and a project at Fort Bragg, North Carolina.
- Conducted field building survey of the Ohio Department of Archives Building in Columbus, Ohio, in order to update drawings and calculate the loads of the building.
- Created and revised ductwork layouts in AutoCAD.
- Analyzed existing chilled water piping systems and designed replacement piping systems including a renovation of Central Library at Ohio State University. Analyzed and calculated pump and system curves based on the existing pump data and required system data, and also sized and selected appropriate pumps.
- Designed Microsoft PowerPoint presentations for senior engineers.

Graduate Research Assistant, Summer 2003, May 2004-September 2004

Ohio State University, Dept. of Mechanical Engineering

Graduate research assistant for Dr. Nathan Jones. Worked on a research project to analyze and develop a heat recovery unit performance program, sponsored by Ohio Power and Light.

Undergraduate Research Assistant, Spring 2003

Ohio State University, Dept. of Mechanical Engineering

Undergraduate research assistant for Dr. Nathan Jones. Tasks included piping design and re-design and updating of the Department of Mechanical Engineering website.

Computer Experience	Operating Environments Proficient in: Windows 95/98/NT/2000/XP, Microsoft Word, Microsoft Excel, Microsoft Internet Explorer, Netscape Navigator, Microsoft PowerPoint Familiar with: AutoCAD, HTML, Maple, Matlab, Trane Piping Designer, Trane Trace 700, Visual Basic Editor for Microsoft Excel
Leadership	President, Pi Tau Sigma Mechanical Engineering Honor Society, Ohio State Chapter, 2003/2004 As President organized the first Pi Tau Sigma Alumni Reunion which took place in the spring of 2004. The event was very successful and included alumni from the first induction class of 1944. President, ASHRAE Student Chapter, Ohio State University, 2003/2004 & 2004/2005 Represent our chapter at the sponsoring Columbus ASHRAE Chapter professional meetings. The ASHRAE student chapter sponsors speakers for the HVAC class as well as field trips to campus new construction and energy plants to view and learn about the HVAC systems. Missions Team Leader for the First Baptist Church College Ministry, 2001/2002 & 2002/2003 Organized the Operation Christmas Child donation project in 2001 and 2002 for the First Baptist Church college ministry, which resulted in the donation of 450 toy filled shoeboxes to the project that year. Coordinated the Beat Hunger 2002 food drive for First Baptist Church college ministry resulting in the donation of 350 pounds of food to the West Ohio Food Bank. Organized a coat and blanket drive for the First Baptist Church college ministry benefiting the Salvation Army and several other local charities. Organized volunteer days for the Salvation Army Soup Kitchen.
Professional Societies	American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) President of the ASHRAE Student Chapter, Ohio State University, 2003/2004 & 2004/2005 The American Society of Mechanical Engineers (ASME) ASME Representative for The Engineering Executive Council, Spring 2002 Society of Women Engineers (SWE)
Scholarships and Fellowships	Graduate ASME Auxiliary Marjorie Roy Rothermel Graduate Scholarship Recipient, 2004/2005 Ohio State University Alumni Association Academic Fellowship, 2003/2004 ASHRAE Grant-in-Aid Research Grant 2003/2004 Undergraduate NASA Space Grant Scholar, 2001/2002 & 2002/2003 Ohio State University Presidential Scholarship Ohio State University College of Engineering Scholarship Ohio State University Department of Mechanical Engineering Scholarship Credit Union Academic Scholarship
Honors and Activities	Pi Tau Sigma Mechanical Engineering Honor Society, Secretary 2002/2003, President 2003/2004 Tau Beta Pi Engineering Honor Society Ohio State University Dean's List Ohio State University President's List First Baptist Church Orchestra Member, 2000-2003 Volunteered for Engineering Day and ME Day 2001-2004
Community Service	Volunteered at the local Salvation Army Participated in numerous spring clean up projects around the Ohio State University community Volunteered with Habitat For Humanity