

Jason K. Ostanek

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Education

Virginia Polytechnic Institute & State University
B.S. Mechanical Engineering, May 2006
Cumulative GPA: **3.88 / 4.0** In Major GPA: **3.72 / 4.0**

Pennsylvania State University
SMART Fellowship
M.S. Mechanical Engineering, May 2008
Ph.D. Mechanical Engineering, May 2011

Relevant Courses

Conduction, Convection, Turbulence, Thermodynamics, Measurements, Fluid Dynamics, Combustion

Skills

Computer: ANSYS, FLUENT, CFDdesign, MatLAB, C++, MS Visual Basic/C++, Unigraphics, Solidworks, Pro-Engineer

Hands-On: Roehrig EMA shock dyno, pressure transducers, strain gages, MIG welding, thermocouples, manual mill and lathe, CNC mill

Leadership

Formula SAE Team Captain – 2006 Team
Faculty Advisor – Dr. Medhi Ahmadian

Experience

Aerothermal Engineering Internship - Pratt & Whitney
West Palm Beach, FLA; Summer 2006
Accurately measured bulk air temp in a gas turbine airfoil internal passage to reduce experimental uncertainty

Undergraduate Research Assistant – Dr. Medhi Ahmadian
VT Advanced Vehicle Dynamics Laboratory; Spring 2006
Characterized MR damper response using Roehrig EMA shock dyno

Undergraduate Research Assistant – Dr. Karen Thole
VT Experimental and Computational Convection Laboratory; Summer 2005
Measured drag force on cylinders in cross-flow

Manufacturing Engineering Internship – Ingersoll-Rand
Mocksville, NC; Summer 2004
Led a quality control effort to reduce defects in recuperator cores

Activities

Pi Tau Sigma - Historian; Fall 2004 – Spring 2006
Formula SAE Team Volunteer; Spring 2005
Hybrid Electric Vehicle Team Volunteer; Fall 2003
American Society of Mechanical Engineers; Spring 2003 – Present
Society of Automotive Engineers; Fall 2005 – Present
National Society of Collegiate Scholars; Spring 2003 – Spring 2006
Ingersoll-Rand Leadership Weekend; Spring 2004
SEC Leadership Conference; Fall 2005

Service

S.E.C. Volunteer – Engineering EXPO; Fall 2005
Team Hokies – Fall 2005
Tutor at Blacksburg Middle School; Fall 2003 – Spring 2004

Honors

ASEE SMART Fellowship; 2006 through 2009
David Shorb Memorial Award; 2006
National Science Foundation Honorable Mention; Spring 2006
Mechanical Engineering Outstanding Senior Award for the class of 2006
Dean's List; Fall 2002 - present
University Honors Program; Spring 2003 – present

Publications

Boggs, C, Borg, L., Ostanek, J., Ahmadian, M. "Efficient Test Procedures for Characterizing MR Dampers". *ASME*. (Location TBD.: IMECHE Conference, November, 2006)