

Steven G. Faulkner

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Objective

An internship or co-op in engineering design with specific interests in project management, entrepreneurship, and defense research

Education

University of Wisconsin-Madison

B.S. Engineering Mechanics with Honors in Research, B.S. Mathematics

- Major GPA 3.68/4.0
- Cumulative GPA 3.54/4.0
- Graduation December 2008
- Dean's Honor List 3 of 4 semesters

Experience

May 2007-August 2007 Ford Motor Company Detroit, MI *Intern - Vehicle Noise, Vibration, and Harshness Design*

- Development and testing of 2010 Mustang prototype vehicles
- Quality control evaluation at manufacturing plant for 2008 Mustang
- Six Sigma Green Belt Certified

May 2006-Current IceCube Project - University of Wisconsin *Student Engineer and Design Assistant*

- Responsible for design of an antennae electronics pressure housing for an in-ice digital radio deployed November 2006 at the South Pole
- Assisted in the design, testing, and deployment of hot water drill components used for Antarctic particle physics research
- Wrote MySQL queries and data analysis programs in order to quantify drill performance

September 2006-Current Formula SAE - University of Wisconsin *Suspension Design Team*

- World Champions - 2007, 1st Place Design - 2007
- Complete redesign of 2007 hubs using aluminum instead of steel
- Developed complete team communication system using a version controlled file repository, Wikipedia, and web based project management software
- Manufacturing of suspension components using 3-axis CNC mill

Technical Expertise

Technical Software: Solidworks, AutoCAD, MathCAD, EES, Maple, Matlab, ANSYS
FeatureCAM, MasterCAM, MySQL, Python, R

Basic Computing: Windows, Linux, MS Office, Adobe Photoshop

Manufacturing: End Mill, Lathe, 2.5 Axis CNC mill, 3 Axis CNC mill

Awards

- General Electric STARS Scholarship Winner
- Theta Tau Scholarship Winner
- US Presidential Scholarship Nominee
- Boy Scouts of America- Eagle Scout Rank
- National Merit Scholar- Commended Student