

Wayne L. Staats

Objective

A challenging mechanical engineering internship involving fluid, thermal or structural analysis, preferably with computational fluid dynamics or finite element analysis

Education

B.S. Mechanical Engineering - University of Wisconsin-Madison

Expected May 2006

Current GPA: 4.0/4.0

Significant courses: Aerodynamics, Heat Transfer, Fluid Mechanics, Thermodynamics, Computer Analysis of Mechanical Systems, Design of Machine Elements, Dynamic Systems, Power Conversion, Mechanics of Materials, Dynamics, Statics

Honors

UW-Madison Engine Research Center Undergraduate Research Fellowship, 2004/05

Neitzel-Steinmetz Scholarship for Mechanical Engineering: 2003/04, 2004/05

Kemper K. Knapp Scholarship

Dean's List: Every semester fall 2002-present

Frank Family Memorial Scholarship

AP Scholar with Distinction (highest possible score on eight exams)

National Merit Finalist

Distinguished Honor Student - Homestead High School (top 3% of graduating class)

Badger Boys State

Campus Address

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414.708.5410

Permanent Address

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Mequon, WI 53092
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262.242.5983

Experience

University of Wisconsin-Madison Engine Research Center - Madison, WI

Undergraduate Researcher - Studied two-phase flow in short, vertical tubes similar to a fuel emulsion tube in a carburetor. Became familiar with experimental technique and data collection methodology. January 2005 - present

TomoTherapy, Inc. - Madison, WI

Mechanical Design Assistant - Worked with product development department in modeling and documenting electrical system on HiArt radiation therapy system. Used SolidWorks as a design tool for various research projects and generated official drawings for manufacturing orders. Became familiar with ISO and FDA quality procedures. November 2003-present

University of Wisconsin-Madison Formula SAE Racing Team - Madison, WI

Powertrain/Drivetrain Group Leader - Managed several mechanical design projects within the powertrain team. Designed and manufactured drivelines for 2004 and 2005 competition race cars. Learned fundamentals of engineering design as well as leadership skills. Utilized solid modeling and finite element analysis extensively, including optimization studies for weight minimization. September 2002 - present

County of Ozaukee (Mee-Kwon Park Golf Course) - Mequon, WI

Starter - Managed reservations, counted daily revenue, deposited nightly receipts and secured building. Provided friendly and efficient service to customers. Developed strong interpersonal and organizational skills. Summers 2001-2003

Skills

Solid Modeling: SolidWorks (over 2000 hours), Pro/Engineer, Unigraphics

Finite Element Analysis: COSMOS, ANSYS, MATLAB/FEMLAB

General: Microsoft Office, AutoCAD, Adobe Photoshop, Adobe Illustrator, Adobe InDesign, BASIC programming, MATLAB programming, Maple 9, limited Linux/Unix

Machining: Lathe, mill, CNC mill, TIG welding (aluminum and steel)

Language: French, conversational and literary proficiency

Activities

Active member of UW Madison Formula SAE Racing Team

Society of Automotive Engineers

American Society of Mechanical Engineers