

**Local Address**

2009 1<sup>st</sup> Avenue  
Tuscaloosa, AL 35401  
(205) 758-8547

**Permanent Address**

5822 Country Meadow Dr  
Gardendale, AL 35071  
(205) 631-0805

**GOAL:** Position in Motorsports Engineering Field

**EDUCATION: Bachelor of Science, Mechanical Engineering**

The University of Alabama, Tuscaloosa, Alabama – May 2005  
Fundamentals of Engineering Exam Fall 2004 – Passed  
Overall GPA: 2.8/4.0  
Dean's List (1999)

**WORK EXPERIENCE**

Team Captain (August 2003 – Present) University of Alabama Formula SAE – Tuscaloosa, AL

- Established team structure and coordinated design group interaction for 2003-04 FSAE Team
- Acquired and managed program sponsorship and purchasing for 2004 season
- Conducted business with various nationwide vendors for parts and service procurement
- Managed interaction between intra-university organizations for public relations activities
- Oversight of and sharing in fabrication processes, including welding, machining, and assembly
- Managed membership and facilitated team communication, as well as FSAE recruiting
- Networked with contacts in Tuscaloosa, Alabama, Southeast, as well as nationwide

Cooperative Education Student (January 2001 – August 2003) NASA/MSFC – Huntsville, AL

- Repaired and realigned laser diagnostics system for rocket plume analysis
- Designed mirror actuation system for optical diagnostics system for rocket plume testing
- Served as combustion devices technical lead for Space Shuttle Main Engine in hot-fire evaluation, diagnostics, and data reduction
- Participated in discussion and selection of combustion chamber materials for next-generation RS-83 rocket engine
- Developed braze process for aluminum oxide/copper joint
- Evaluated material properties for unknown gradient mix material (NiCrAlY)

Undergraduate Research Assistant (August 2002 – May 2003) UA ME Dept. – Tuscaloosa, AL

- Organized laboratory setup and tool inventory
- Designed and evaluated experiment structure for microgravity slot burner experiment
- Fabrication of experiment structure and installation of experiment equipment
- Testing of experiment operation and failure modes

**HONORS & ACTIVITIES**

Alabama Space Grant Consortium Scholarship  
President's Cabinet Scholarship  
Ambassador for the College of Engineering  
Boy Scouts of America – [*Eagle Scout*]  
New Rock 90.7 – [*Morning Disc Jockey*]  
Society of Automotive Engineers (SAE) –  
[*2002 President, 2004 Speaker Coordinator*]

SAE Design Competition Series –  
[*Mini-Baja 2000, 2003 & FSAE 2004, 2005*]  
American Society of Mechanical Engineers  
American Institute for Aeronautics and  
Astronautics (AIAA) – [*2002 Treasurer*]  
Alabama Catholic Student Retreat (SEARCH) –  
[*Coordinating Team Member*]  
UA Intramural Sports, Backpacking, Climbing

**SKILLS**

- MS Office (Word, Excel, Access)
- Web Design (HTML, ASP, etc.)
- Database Programming (SQL, Pascal, Delphi)
- AutoCAD
- ANSYS
- General Fabrication (Mill, Lathe, TIG, MIG, SMAW)
- Excellent leadership and administration skills
- Communication training in interpersonal and organizational environments

References available upon request