

Aaron Howell

303 Calibre Springs
Atlanta GA, 30342
ahowell7@gatech.edu
901.493.8750

EDUCATION:

B.S. Mechanical Engineering and Mathematics
Harding University, Searcy, Arkansas
Graduation date: May 2008
GPA: 3.85 (Magna Cum Laude)

Pursuing Ph.D. in Mechanical Engineering, Fall 2009 – Present
Georgia Institute of Technology, Atlanta, GA
Advisor: Dr. Cyrus Aidun
Current GPA: 3.69
Focus: Thermal-Fluid Sciences

EXPERIENCES:

Georgia Tech, Atlanta, GA

Research Assistant, August 2011 – Present

- Project title: "Development of a Black Liquor Evaporation Method to Eliminate Fouling"
- Building numerical simulations to model falling liquid flow in a heated chamber
- Post-processing the results of simulations to evaluate the acceptability of a design

Teaching Assistant, January 2010 – May 2011

- Assisted with ME2110, Creative Decisions and Design, and ME3057, Experimental Methods
- Presented course materials, and lab and safety instructions to students
- Scored papers and presentations

NASA Workforce Development, Searcy, AR

Research Intern, June 2007 – August 2007

- Designed and machined platform to test hybrid rocket fuel grain
- Analyzed different fuel grains to determine which was most potent
- Presented findings at Arkansas Space Grant Consortium 16th Annual Symposium

GoRide, Searcy, AR

Contract CAD Designer, September 2007 – November 2007

- Created patent drawing in SolidWorks
- Managed contract work while completing college courses

Trio Student Support Services, Searcy, AR

Tutor, January 2006 – May 2007

- Courses tutored include: Algebra, Calculus, Statics, Dynamics, and General Physics
- Applied academic knowledge and communication skills to help students succeed

COMPUTER SKILLS:

Capable of solving problems with math packages such as Maple and Maxima
Experienced programming solutions in C, C++, and Matlab
Develop CFD simulations using OpenFOAM

HONORS AND ACTIVITIES:

Harding University Honor's College & Dean's List
Alpha Chi National Honor's Society member
Harding University's Rocket Team