

MICHAEL D. HARBIN

1835 NW 5th Avenue, Apt. 3 • Gainesville, FL 32603 • 850-292-0793 • mharbin@ufl.edu

Education

BS Mechanical Engineering – University of Florida, Gainesville

Anticipated Graduation: May 2012

Cum Laude - GPA 3.30/4.00

Relevant Coursework

- Control of Mechanical Systems
- C for Engineers
- Numerical Analysis
- Aerodynamics
- Statics & Dynamics
- Heat Transfer
- Computer Aided Graphic Design
- Fluid Mechanics & Thermo/Fluids

Experience

Small Satellite Design Club, University of Florida

2010 to present

Team Member

Designed a 2U class nanosatellite with full, active, three-axis control to carry an optical imaging payload.
Lead research on the effects of nanosatellite attitude control on data transfer rates using dipole antennas.
Performed outreach activities designed to increase interest in small satellites and STEM fields for grades K-12.

Microgravity Team, University of Florida

August 2010 to August 2011

Team Member

Designed and manufactured a testbed for the control moment gyroscope being used in UF's SwampSat nanosatellite project.
Tested the ability of a control moment gyroscope to precisely and accurately control nanosatellite attitude.
Conducted experiments on the ground and in microgravity via a NASA microgravity aircraft.

Ruby Tuesday, Pensacola, FL

2008 to 2009

Team Member

Worked with kitchen team and assisted management in coordinating personnel.
Worked successfully in a high stress, results-driven environment.
Developed team building and communication skills working with fellow team members.

Noteworthy Skills

Microsoft Office	Computer Networking	Solid Works	C/C++
Spanish (Intermediate)	LabVIEW	AutoCAD	MATLAB

Activities and Accolades

- Small Satellite Design Club
- American Institute of Aeronautics and Astronautics
- American Society of Mechanical Engineers
- Society of Automotive Engineers
- Hybrid Rocket Team
- Multicultural Engineering Scholarship Winner
- Sylvia T. McKenney Scholarship Winner
- Dean's List