ANDREW HINTERMEIER

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EDUCATION

Rochester Institute of Technology Rochester, NY

Bachelor of Science in Mechanical Engineering, Aerospace Option 2015

Activities: Resident Advisor (2011-2014), RIT Space Exploration Group (2014-2015), Kappa Delta Rho (Treasurer 2010-2015), Pi Tau Sigma Mechanical Engineering Honor Society (Treasurer 2010-2015)

SKILLS

MATLAB, SolidWorks, Microsoft Office, VBA, Python, ANSYS, LabVIEW, HTML, CSS, Milling machines, lathes, Arduino, using metrology equipment

EXPERIENCE

G.W. Lisk Clifton Springs, NY

Test Engineer 2014 – 2015

- Tested and troubleshot prototype solenoids to ensure products met appropriate standards before production
- Responsible for using a wide variety of testing and metrology equipment
- Programmed VBA scripts and macros to automate data cleaning/importing and perform statistical studies

Laboratory for Laser Energetics Rochester, NY

Co-op Student Sept. 2012 – Mar. 2013

- Responsible for conducting research experiments pertaining to the cleaning and diagnosis of defects in diffraction gratings for a high powered laser system
- Developed the method and equipment for coating fibers in a micron scale layer of carbon black doped epoxy
- Was trained to use equipment found in the metrology lab (microscopes, mass spectrophotometer, microindenter hardness tester) and work in a clean room setting

Bird Technologies Derby, NY

Research and Development Intern Jun. 2012 – Aug. 2012

- Reverse engineered, 3-D modelled , and machined a testing rig for circuit boards
- Designed and power tested new heat sinks for improved heat transfer
- Created new brackets for better arrangements in RF signal boosters

PROJECTS

RIT Space Exploration Group (SPEX) - CubeSat design/proposal

Head of High Altitude Balloon Team and Leader of Mission/Science

- Led a group of students to design and develop a high altitude balloon (HAB) to be used as a test platform for CubeSat hardware. The first HAB was designed to rise to 90,000 ft. while recording atmospheric data, taking pictures, and communicating back its position.
- Worked with a small group to begin developing a payload for a NASA CubeSat Launch Initiative (CSLI). This included: brainstorming concept of operations, researching potential components, and determining feasibility for a CubeSat laser uplink system.

Multidisciplinary Senior Design Project- Expansion Joint Active Monitoring System

- Created a sensor package to monitor the integrity of a local company's line of composite expansion joints (EJ). Our sensor package was designed to measure the temperature, pressure, and axial displacement without causing a significant loss of integrity to the EJ.