

BRADY HRABOVSKY

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SUMMARY

Apply formal education and cooperative education experiences at a salaried full-time position in the Mechanical Engineering field. Interested in topics such as aerospace design and analysis, controls theory and design, robotics, and process automation. Available to begin upon graduation in May 2018.

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester, NY
BS/MEng in Mechanical Engineering, expected May 2018
Master's Focus in Controls, Minor in Electrical Engineering
GPA: 3.88/4.0
RIT Honors Program, Outstanding Undergraduate Scholar Award, Kearsse Writing Award

CLEARANCE

SECRET, Obtained summer 2016

PROJECTS

Electric Motor Test Stand and Performance Archiving

Using an Arduino Uno and various IC's/basic electrical circuit components, developed a safe, reliable, and user-friendly method for testing and recording electric motor/propeller performance metrics such as thrust output and power consumption versus throttle input.

Autonomous Control and Tracking of Quadcopter Using OpenCV

Implemented object tracking using a laptop and webcam along with the OpenCV framework with C++ and JavaScript to autonomously solve kinematic equations to track and control a quadcopter to catch a thrown ball.

EXPERIENCE

Lockheed Martin Corporation, Bothell, WA

Mechanical Engineer Intern

June 2017 – August 2017

Provided design support for infrared laser counter measure applications, including mechanical aperture design as well as electronics selection. Additionally, utilizing CREO and ANSYS, provided design and structural analysis for contract proposal efforts.

Lockheed Martin Corporation, Syracuse, NY

Mechanical Engineer Intern

June 2016 – August 2016

Employed CREO and ANSYS in support of the Production Hardware team to design and analyze various integration and structural components to be implemented on developing product lines. Teamed up with manufacturing teams to implement improvements to the safety and reliability of current pneumatic test equipment.

GE Aviation, Lynn, MA

Logistics Co-op

June 2015 – December 2015

Supported Logistics Quality Leader to maintain quality control and special quality processes within Lynn logistics. Collaborated with Cell Leaders to implement new processes to increase productivity while maintaining a high level of safety and quality. Increased the efficiency and accuracy of pre-existing metric tracking by utilizing VBA within Excel to remove user error.

Honors Program at RIT, Rochester Institute of Technology, Rochester, NY

Student Worker

September 2013 – Present

Assist program Director and Assistant Director. Complete monthly procurement card log, maintain monthly expenditure tracking reports, as well as assist in coordination of yearly social events and institution activities.

SKILLS

ProEngineer (CREO), Solidworks, Autodesk Inventor, MATLAB, Microsoft Office, Excel
VBA, Arduino IDE, CorelDraw, basic web development, basic ANSYS.

ACTIVITIES

RIT Aero Design Club

- Treasurer

April 2014 – Present

Honors Program at RIT

- Orientation Mentor

Fall, 2014 – 2017