

Education

University of Central Florida – Bachelor of Science in Electrical Engineering & Computer Engineering

January 2013 – May 2018 | Orlando, Florida

- 3.0 GPA
- Fall 2013 Dean's List
- Minor in Intelligent Robotic Systems

Professional Experience

Lockheed Martin/UCF – CWEP Student Engineer - Advanced Manufacturing Technology Group

May 2014 – April 2015 | Orlando, Florida

- Led several projects within a manufacturing environment involving
 - Automated Optical Inspection with National Instruments Vision Builder
 - Automated Machine-to-Human Interaction with Java, Arduino
 - Research and Development on new forms of hardware
- Programmed robotic arms to autonomously perform high precision tasks with Adept V+

Mood Hoops - Research and Development Engineer

May 2013 – December 2013 | Hudson, Florida

- Created prototypes, designs, and production guidelines for new high stress LED entertainment devices

ProMation Engineering, Inc. - CAD Specialist and Engineering Intern

May 2011 - March 2012 | Brooksville, Florida

- Designed and prototyped explosion-proof (NEMA 7) actuator housings
- Worked on projects centered around retrofitting and utilizing standardized parts

Campus Involvement

Robotics Club at UCF: Fall 2013 - Present

President of the Robotics Club for 2014-2015 - Treasurer of the Robotics Club for 2013-2014

- Handled executive actions, led meetings, and planned events
- Created public outreach and educational programs

Project: 2016 AUVSI RoboSub – Team Captain – In Progress

- Creating an Advanced Autonomous Robotic Submarine - focus on ease of use and stability
- Works in progress include:
 - ROS integration using C++ and Python on Ubuntu
 - Object Recognition and Manipulation
 - Relative Spatial Navigation and 6 Degrees of Freedom Maneuverability
 - Hydroacoustic Localization and Reconnaissance

Project: 2015 AUVSI Intelligent Ground Vehicle Challenge – Mechanical/Electrical Team

- Implemented the wire scheme and management for the robot - focus on ease of use and maintainability
- Designed unique axil collet attaching motors to wheels - focus on machinability and ease of installation

Project: 2014 AUVSI RoboBoat – Mechanical Team - Placed 3rd Internationally

- Designed, Machined, and 3D printed parts for structural reinforcement and sensor placement
- Upgraded balancer boards on LiPo batteries for the boat

American Society of Mechanical Engineers (ASME): Fall 2013 – Fall 2015

Project: 2014 ASME SPDC, Student Design Competition - Load Carrying/Releasing Quad Copter

- Responsible for propulsion/lift means for a wooden quad copter carrying a heavy cargo