Riley Van Wie Chapman

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Olin College of Engineering
1000 Olin Way, MB 707
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Education

Olin College of Engineering - Needham, MA — May 2017
Candidate for Bachelor of Science in Engineering: Robotics — GPA 3.73

Ticonderoga High School - Ticonderoga, NY — June 2013
Advanced Regents Diploma with Honors - Valedictorian

Experience

Draper - Autonomous Vehicle Engineering Internship - Boston, MA — Summer 2016

- Autonomous city driving for tier one supplier of automotive safety equipment
  - Characterized 77Ghz Automotive radar
  - Developed front steering robotic platform for autonomous system testing

Olin Electric Motorsports (student team) — Fall 2013 - Present

- Critical member of the Formula SAE Electric team. As the senior electrical engineer on the team, I am the chief electrical system architect. I am responsible for the design and documentation for the 80kW powertrain, battery configuration and associated battery management system, safety shutdown circuit, and the structure of the low voltage sensing and communication network (CAN). Past work includes:
  - Building the teams first Formula SAE Electric vehicle
  - PCB design and fabrication
  - Designed (Solidworks, 3D printing), electrically implemented (design, soldering), and repeatedly tested (debugging) of 10kW brushed DC motor controller

Robotics Research - Olin Intelligent Vehicles Lab — Spring 2014 - Present

- On team that developed an autonomous marine mammal research drone system - SnotBot, coauthored paper and attended OCEANS '15 conference in Genova, Italy
- Coded ROS/Mavlink communication, moving home base function (Python, ROS)
- Developed software for interaction and facial tracking (C, Python, ROS) for 3 ft. tall 3D printed Humanoid Robot - Intel's Jimmy

Internship at Loci Controls - Greentown Labs, Somerville, MA — Summer 2015

- Calibrated gas flow and concentration sensors (Serial Communication, Python)
- Designed and built quality assurance rig to test pressure tolerances (Python)

Internship at Catz Sports - Needham, MA — Summer 2014

- Designed and developed web application for athletic coaching (JS, HTML, CSS)
- Developed algorithm for producing tailored workouts for growing individuals (JS)

Skills: Python, C, ROS, JS, HTML, CSS, MATLAB, SolidWorks, Altium, Mill, Lathe, Sheet Metal, Laser Cutting, 3D Printing, Drone Piloting, Wiring, Wrenching, Soldering

Interests: Backpacking, Biking, Music performance (Bass, Guitar, Drums), Mountain Climbing, Unicycling, Fire Arts, Rock Climbing, Tele Skiing, Ultimate Frisbee, Videography