

# Riley Van Wie Chapman

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Olin College of Engineering  
1000 Olin Way, MB 707  
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## Education

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<b>Olin College of Engineering</b> - Needham, MA	May 2017
Candidate for Bachelor of Science in Engineering: Robotics	GPA 3.73
<b>Ticonderoga High School</b> - Ticonderoga, NY	June 2013
Advanced Regents Diploma with Honors - Valedictorian	

## Experience

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

- Autonomous city driving for tier one supplier of automotive safety equipment
  - Assessed the functionality 77Ghz automotive radar on test system and developed visualization tool for displaying tracked objects from multiple sources
  - Developed electrical system and actuated steering mechanism for front steering robotic platform for autonomous system testing

**Olin Electric Motorsports (Formula SAE Electric team)** Fall 2013 - Present

- As the senior electrical engineer on the team, I am the chief electrical system architect.
  - Spec'd components for 80kW powertrain
  - Structured the low voltage power distribution and communication network (CAN)
  - Designed configuration of a >5kWh lithium battery pack
  - Designed PCBs with high and low voltage sections
  - Designed, manufactured, and tested 10kW brushed DC motor controller

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

- Contributed on 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)

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**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