

# Riley Van Wie Chapman

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Olin College of Engineering

1000 Olin Way, MB 707

Needham, MA 02492

## Education

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**Olin College of Engineering** - Needham, MA

May 2017

Candidate for Bachelor of Science in Engineering: Robotics

GPA 3.74

**Ticonderoga High School** - Ticonderoga, NY

June 2013

Advanced Regents Diploma with Honors - Valedictorian

## Experience

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**REVO Electric Racing (student team)**

Fall 2013 - Present

- Electric FSAE/Formula Hybrid vehicle - racing Spring 2016
  - Designed electrical safety systems, compiled the conjunction of both rule sets
  - Programmed CAN communication with Sevcon motor controllers (Python, embedded C, Arduino), mentoring younger team members
  - Tested tractive system components (wiring, wrenching)
- Electric Reverse Trike - Powertrain Subteam Leader
  - Designed (Solidworks, 3D printing), electrically implemented (design, soldering), and repeatedly tested (debugging) of 10kW brushed DC motor controller
  - Designed and fabricated battery box (Solidworks, Laser Cutting, Sheet Metal)

**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)

**Silver Bay YMCA of the Adirondacks** - Silver Bay, NY

Summer 2013

- Maintenance/Facilities Department: shadowed Electrician, Mechanic, and Carpenter

**Student Conservation Association** - Yellowstone National Park

Summer 2012

- Improved and maintained trail system with backcountry crew for a month

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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