Riley Wood

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EDUCATION

Tufts University, Medford, MA May 2016

Pursuing Bachelor of Science in Computer Engineering

- GPA: 3.89
- Dean's List 7 semesters
- Howard Sample Prize Scholarship in Physics 2014,
- Donald A. Cowdery Memorial Scholarship 2015
- Morris and Sid Heyman Prize 2015
- Member of Tau Beta Pi Engineering Honors Society

EXPERIENCE

Levant Power Corp., Woburn, MA, *Embedded Software Engineer* May '14-15, June '16 - Present

- Developed hardware test platform in Python to profile microcontroller board performance
- Designed and implemented a web service on a Raspberry Pi in Python/C which serves car data to UIs
- Created user interfaces in Java/Android/HTML, CSS, JS which display live vehicle suspension data

Vecna Technologies, Cambridge, MA, *Electrical/Firmware Intern* June 2015 – August 2015

- Selected hardware and wrote firmware in C for a cart-lifting warehouse robot.
- Researched, designed and prototyped next-generation power management board using Altium.

Tufts CS Department, Medford, MA, *Teaching Assistant* Jan. - May 2014

- Reviewed C++ code and fixed bugs with students for class projects/HW during office hours.

City College, New York, NY, *Robotics Lab Researcher* Summer 2013

- Researched and selected components such as ARM board & sensors for CCNY's "City Climber".
- Wrote drivers in C enabling ARM board to use peripherals such as I2C, CAN, & PWM.

Tufts Human-Robot Interaction Lab, Medford, MA, *Research Assistant* Jan. - May 2013

- Built an autonomous battlebot for competition as part of a three-person team.
- Replaced hardware and wrote a software package in the process of refurbishing a robot.
- Programmed BeagleBone & Raspberry Pi in C++, Java, Python, and ARM assembly.

PROJECTS

Doorbot – Robotic Door Opener

- Built a robot with my roommate that opens our door in response to a web request/RFID swipe
- Built motor driver, RFID reader, & voltage step-down circuits w/ Rasp. Pi. Coded in PHP & Python.

ACTIVITIES

Tufts Robotics Club, *President*

- Fielded autonomous firefighting robot at annual Trinity College Firefighting Competition.
- Led a team competing in the Intel Cornell Cup embedded design competition, making it to finals

Tufts Hackathon, HackMIT, MakeMIT, *Hackathon participant*

- Built webapps at several Boston-area hackathons.

SKILLS

Computer Languages: C, C++, Python, Java, VHDL. Proficient in Unix.
Software: ModelSim, LAMP Servers, MATLAB, Eagle, Altium, Adobe CS5 Suite
Web Design: PHP, MySQL, HTML, CSS, JavaScript
Languages: Spanish (proficient), Chinese (beginner)