Riley Wood

Embedded Systems Engineer
http://rileywood.me

rjw245@gmail.com

EDUCATION

Tufts University, Medford, MA — Sept 2012 - May 2016

Bachelor of Science in Computer Engineering, Summa Cum Laude

- GPA: 3.9
- Honors: Dean's List, 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* — Spring 2014, 2016

- 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* — Spring 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, PHP, MySQL, HTML, CSS, JS. Proficient in Unix.
Software: ModelSim, LAMP Servers, MATLAB, Eagle, Altium, Adobe Photoshop, Xilinx Suite
Hardware: FPGA, Power PC architecture
Languages: Spanish (proficient), Chinese (beginner)