

Logan Sweet

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Education

Olin College of Engineering

BS Electrical and Computer Engineering
GPA 3.63, Graduating May 2018

Tufts University

Gap Year, School of Engineering 2014

Harvard Business School HBX CORE

Course on fundamental business practices. Topics included business analytics, financial accounting, and economics for managers. 2015

Projects

Raytheon Senior Capstone Project

Sep 2017 - May 2018

Working on a team of 5 to use additive manufacturing processes with magnetic inks to improve the efficacy of passive PCB components. We use software modeling and lab testing to evaluate different materials and test vehicles. Currently developing a more complex RF circuit to test the most promising magnetic materials.

Haptic Wheel

Feb 2018 - Mar 2018

Created a haptic feedback wheel with a variety of modes for a course project. Modes can be selected in a python GUI, then all control is executed in C on a PIC24 microcontroller.

ASL Glove

Oct 2015 - Dec 2015

Designed and fabricated a glove that interprets American Sign Language Fingerspelling and outputs translated text to a phone via Bluetooth using flex sensors, an accelerometer, and an Arduino. My team of four publicly posted the final design and code so that others can replicate the glove.

Skills

Technical: MATLAB, LTSpice, KiCad, LaTeX, Oscilloscope, Function Generator, Vector Network Analyzer, Time Domain Reflectometer, Arduino, Verilog, Python, C (in progress), PCB Design (in progress), SolidWorks, AutoCAD, Keysight PLTS & ADS, Jira, CAM350, Adobe InDesign & Illustrator, ShopBot/ CNC router, Laser Cutting

Leadership: Rapid Prototyping, Product Management, User-Centered Design, Lean Product Development, Scrum Methodologies

Elected Positions:

Freshman class student government representative,
Student government vice president for finance,
Senior class student government representative

Experience

Signal Integrity Intern

TE Connectivity · Harrisburg, PA

May 2017 - Aug 2017

- Designed custom high speed connectors for clients
- Characterized PCB connectors with TDR and VNA
- Established benchmarks for TRL and AFR calibrations and created procedure documentation

Principles of Engineering Lead Course Assistant Olin College of Engineering · Needham, MA

Fall 2016, Fall 2017

- Assisted faculty in a project-based mechatronics course
- Held office hours to guide student project development, answer technical and teaming questions, and provide feedback
- Served as lead of 8 student course assistants in 2017: organized meetings, led grading and rubric development, and served as main point of contact for instructors

Engineering Fellow

MIT Open Style Lab · Cambridge, MA

Jun 2016 - Aug 2016

- Designed a custom modular jacket for a quadriplegic client
- Performed materials research on fabric candidates
- Worked with interdisciplinary team of occupational therapists and fashion designers

Technical Studio Intern

Boston Museum of Science · Boston, MA

Jun 2016 - Aug 2016

- Engaged visitors of all ages in engineering activities
- Created and facilitated new design challenges for the museum

Product Management Intern

Phone2Action · Washington DC

Feb 2016 - May 2016

- Worked with engineering, sales, and customer success teams to streamline the monthly software release process
- Created documentation of new feature requirements and facilitated internal and external product feedback
- Conducted trainings and served as point of contact for new clients

Summer Intern

Olin College of Engineering Library ·
Needham, MA

Jun 2015 - Aug
2015

- Worked on a team of students, alumni, and faculty to change the space and culture of use of the Olin library
- Designed, prototyped, and implemented ideas using an agile development strategy

Lab Assistant

Vanderbilt University · Nashville, TN

Jun 2012 - Aug 2012

- Graphene synthesis and nanocarbon properties studies under principal investigator Dr Yaqiong Xu
- Synthesized and analyzed graphene samples
- Presented results at a poster symposium