1000 Olin Way MB127

Evan Dorsky

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Education

Franklin W. Olin College of Engineering - Needham, MA   May 2016
Candidate for BSE in Electrical and Computer Engineering; GPA 3.74/4
Relevant Courses
Circuits, Signals and Systems, Analog and Digital Communications, VLSI, Computer Architecture, Power Supplies,
High Voltage Safety, Software Systems, Discrete Math, User Oriented Collaborative Design

Experience

Electrical Engineering Intern - FastCAP Systems   Summer 2014
Created a polished prototype of an electromechanical system, including a custom circuit board for a low-input-voltage
boost converter suitable for extreme environments. As the functional project lead, worked with electrical and
mechanical engineers to design the circuit and housing. Improved power output and density by an order of magnitude
over the course of the summer.

Lead Software Engineer - EduCanon   Summer 2013
Made a platform for teachers to create, deliver, and grade interactive lessons by adding checks for understanding to
videos. Worked with the cofounders to design a database schema, RESTful API, and front-end experience while
building the entire web app from scratch. With no technical mentor after the first few weeks, self-taught the
necessary technologies and techniques and delivered a functional prototype in time for the start of the school year.

Intro to Sensors and Measurement Course Assistant - Olin College   Fall 2014
Member of the teaching team for a first semester introductory circuits and measurement class. Held tutorials, graded
labs, and offered support to project teams. Third semester as a course assistant.

Projects

MIPS Central Processing Unit - Computer Architecture   Spring 2014
Wrote a working single-cycle MIPS CPU in Verilog with two teammates. Tested the CPU by running MIPS assembly
programs on it. Implemented the instruction decoder, ALU, and all associated control circuitry.

Beat-Finding Music Visualization - Signals and Systems   Spring 2014
Found the BPM (beats per minute) and frequency components of music with signal processing techniques. Used the
data to create a visualization that highlighted the melody and pulsed with the beats.

Bike Stand Generator - Principles of Engineering   Fall 2013
On a team of four, created a bike-driven USB device charging system. Stored energy from a generator on
supercapacitors and designed a switching power supply (MSP430 controlled) to regulate the output.

Leadership

Fire Arts Club, Conductorless Orchestra, SLAC - Olin College   Fall 2014
Manage and lead campus clubs and organizations. Co-navigator of Orchestra and president of Fire Arts Club. Helped
create and teach an introductory Python course for SLAC (Stay Late and Code, a coding collaboratory).

Olin Robotic Sailing Electrical Coordinator - Olin College   Spring 2014
The electrical subteam focused on PCB design, power efficiency, and the long-term durability of an electronics
package in an autonomous robotic sailboat. As coordinator, made sure everyone had the resources and knowledge
they needed to be productive.

Skills

Experience with

web,	JavaScript, jQuery, d3.js, Backbone.js, Node.js, PHP
embedded,	Arduino, C, C++
electrical,	PCB Layout (DipTrace), Circuit Simulation (LTSpice), Digital, Analog, and Power Circuit Design
et al.	Git, Vim, Unix, Verilog, LaTeX, MATLAB, Python
Exposure to	Integrated Circuits (Magic VLSI), SMD soldering, MySQL, SolidWorks, CUDA, Photoshop, Premiere
Passionate about	Violin (11 years), Viola (4), French (conversant), Fire spinning (2)