Jack Greenberg

Embedded Systems and Electrical Engineer

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github.com/jack-greenberg

I am an engineering student at Olin College studying embedded software and electrical design. I also cook, shoot pool, and play jazz bass.

Experience

Olin SCOPE Capstone
Jan - Aug 2021

Electrical Engineering Lead

- Developed PCB to host a motor controller, BMS chip, and microcontroller for regenerative braking application
- Developed control algorithms and firmware entirely in Rust

Apple Inc — Special Projects Group
Jan - Aug 2021

Embedded Controls Software Intern

- Wrote firmware drivers for interfacing with sensors and other hardware peripherals in embedded systems (under NDA)
- Worked with multicore microcontrollers running real-time operating systems

Olin Formula SAE Electric
Sept 2019 - Present

Senior Electrical and Firmware Engineer

- Developed hardware-in-the-loop test board that connects to each ECU on the car to simulate and test safety-critical systems
- Built a vehicle software update system from scratch consisting of a bootloader and CAN-based application protocol
- Brought up libraries, drivers, and RTOS application code for AVR and ARM microcontrollers
- Improved the team's usage of Git and Github by introducing new workflows and automations to prevent merge conflicts

Education

Olin College of Engineering
Dec 2023

B.S. in Electrical and Computer Engineering

Notable courses include

- Modeling and Simulation of the Physical World
- Software Systems
- Computer Architecture
- Analog and Digital Communication

Skills

C	MATLAB	FreeRTOS	ASL
Rust	KiCad	Git	Jazz Bass
Python	Docker	TCP/IP	Cooking