



Jack Greenberg

Embedded Systems and Electrical Engineer

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

Experience

Zipline

May 2023 - Aug 2023

Avionics Embedded Engineering Intern

- Owned design and development of intra-vehicle wireless communication system using IEEE 802.11
- Wrote systems software in Rust and applied a data-driven approach to improving the code

Olin SCOPE Capstone

Aug 2022 - May 2023

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 - Special Projects Group

Jan - Aug 2021

May - Aug 2022

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 - May 2023

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
- 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

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