Jack Greenberg

Embedded Systems Engineer

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

j@jackgreenberg.co
jackgreenberg.co
github.com/jack-greenberg

Experience

Apple Inc — Special Projects Group
Embedded Controls Software Intern

Jan - Aug 2021
May - Aug 2022

- 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 Electric Motorsports (Formula SAE)
Senior Electrical and Embedded Engineer

Sept 2019 - Present

- Built a vehicle software update system from scratch consisting of a bootloader and CAN-based application protocol
- Rewrote entire BMS firmware image, reducing memory usage by more than 50% while improving speed and robustness
- Simplified firmware development fo the team by writing libraries to abstract all microcontroller hardware peripherals
- Developed a CAN bus framework that allows the team to specify messages in YAML, which is then compiled into a DBC file and a C library that can be used in firmware images

Indico Data
Backend Software Intern

May - Aug 2020

- Built a Redis-based caching mechanism for data permissions, reducing network traffic among microservices
- Refactored microservice infrastructure across 17 repositories between two different libraries with zero deployment issues

Education

Olin College of Engineering
B.S. in Electrical and Computer Engineering

Dec 2023

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