Reed Streets

Embedded Software Engineer, EIT

Embedded Software Engineer with 3 years of experienced on a fast-paced startup's product team. Having worn many hats there, duties have included handling electrical testing needs, collaborating with hardware engineers, writing code for big projects as they arise, and even the occasional hardware development. But the greatest skill gained was the ability to develop new skills rapidly for any new project.

Contact

(985)607-4901

rstreets96@gmail.com

Seattle, WA

Education

Louisiana Tech University

2015 - 2019

B.S. in Electrical Engineering

Minor in Mathematics

Magna Cum Laude

Reference

Neal Wilding
Senior Electrical Engineer
Rad Power Bikes
Email : nwilding@ualberta.ca

Bobby Gintz
Senior Firmware Engineer
Rad Power Bikes
Email : bobbygz17@gmail.com

Experience

2021 - 2023
Rad Power Bikes | 1128 NW 52nd St, Seattle, WA

Associate Electrical Engineer

Motor Controller (C): Project to bring up select dev-kits to create an E-bike prototype. This involved using FOC (sensorless, hall start), reading bike peripherals (throttle, brake switch, pedal cadence), and monitoring for errors (overcurrent, overvoltage, etc.)

Motor Dyno Fixture (Python): Project to provide a user-interface to control the torque load and speed setpoint of a motor under test. The PC interfaced with 4 RS232 devices (Electrical Power Analyzer, Torque/RPM sensor, load motor controller, under test motor controller), used PIDs to set the loads, and used the TKinter module for the UI.

2019 - 2021
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Electrical Engineering Technician

Test Fabrication and Execution: Solder custom harnesses from a schematic, follow test procedure, record results, build prototype E-bikes.

Python Test Automation: Created a user interface to walk the technician through test steps as the code cycled through various RS232 commands.

Ride Data Logging: Project to gain ride behavior and electrical data from E-bikes during operation. This included setting a dev-kit between 2 RS232 devices and sending important pass-through data to a Flutter app via BLE (nrf51822 chip), which then used the cellular network to log the data to Google Sheets.

Skills

Primary	C/C++	Motor Control	Oscilloscopes
	Python	PID Control	Logic Analyzers
	Dart (Flutter)	UART/SPI/I2C	Motor Dynos
	FreeRTOS	BLE (nrf51822)	Thermal Chambers
	Git	JTAG Debugging	Battery Cyclers
Secondary	C# (.NET)	OTA Updates	Schematic Review
	Matlab	AWS IoT	DFMEA
	LABView	HTTP Servers	Altium Designer
	WiFi (ESP-IDF)	Agile	CAN