AUSTIN FISK

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Overview

Proven Embedded Software Engineer with years of experience. I excel in bringing up hardware from Rev 1 to Release. My expertise is in Embedded C/C++ with branches out into many other areas of engineering such as PCB Design, 3D Design, and Automobile Data.
My personal projects display a wide array of my engineering experience. These projects are available for viewing at **https://pages.cs.wisc.edu/~fisk/** . The 433Mhz Remote, Pool Monitoring Machine, and Super Cooled Seats display the largest array of skills such as Embedded Firmware, Web Server, Circuit/PCB Design, 3D Design, and interacting with an already existing system.

Experience

Embedded Software Engineer Aug 2022 to Current
HP Tuners — Buffalo Grove, IL
Developed and launch E41 and E99 Unlockers. Muxed multithreaded Free RTOS code for the RT1165 and ported it to multiple products such as Dual CAN and HPTNet Tester. I adapted CAN mailboxes for high speed CAN transfer with low latency while being a man in the middle CAN device. Debugged and fixed hardware issues. Went through the entire product lifecycle of the Powersports SOTF, designing everything from the circuit board & code to housing.

Embedded Software Engineer Jan 2021 to Aug 2022
Reconyx — Verona, WI
Developed embedded C code for the HyperFire 4K camera. Built code on the iCatch V37 image processor for the system UI, EEPROM, RTC, and other peripheral devices. Worked on AWB, AE, and RGB correction in the camera.

Test Automation Developer Jan 2019 to Aug 2022
MCANTA — Madison, WI
Automated UI-driven tasks, centered around testing, and bug hunting. Trained customers and fellow employees. Copado and Eggplant platforms.

Skills

- **Hardware Skills:** Schematic Design, PCB Design, Oscilloscope, Logic Analyzer, THT, SMD, Build PCB with Manual Pick-N-Place, Replacing Small Micros vis Hot Air Soldering
- **Data Busses:** PWM, SPI, I2C, CAN, Serial, Serial Over CAN, KLine, LIN Bus, Bit Bang ICSP, Bit Bang with PWM a 125KHz RF Antenna
- **Firmware Experience:** RF (315MHz, 433MHz), Direct controlling LF (125KHz), EEPROM, RTOS, threading, RTC, ADC, Port Expander, Low power, Bootloader, OTA updates, hardware regulatory testing, hardware debugging, logic analyzer, hardware reviews/suggestions, hardware fixing, DVM debugging

Education and Training

University of Wisconsin - Madison — Madison, WI, USA
Bachelor of Science in Computer Science Graduated: May 2018

Professional Growth Courses
Automotive Electrical 1, 2, & 3. Chip Whisperer. C++ Design Patterns. C++ advanced class. PCB Full Spectrum (Altium). Embedded System Security for C/C++ Developers. Modern C++ for Embedded. Intro to Solid works.