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

Circuit Board Design, RF (315MHz, 433MHz), Direct controlling LF (125KHz) with PWM, EEPROM, RTOS, threading, RTC, ADC, Port Expander, Low power, Bootloader, OTA updates, hardware regulatory testing, hardware debugging, logic analyzer, hardware reviews/suggestions, hardware fixing.

PWM, SPI, I2C, CAN, Serial, Serial Over CAN, KLine, LIN Bus, Bit Bang ICSP

Embedded Software Engineer   Jan 2021 to Aug 2022

Reconyx — Verona, WI

Developed embedded C code for the system UI, built upon the iCatch V37 image processor. Persisting and loading user configuration settings.

I2C communications between the Housekeeper and the Image Processor chip.

Test Automation Developer   Jan 2019 to Aug 2022

MCANTA — Madison, WI

Working with customers and fellow employees to assist in their robotic process automation development. Copado and Eggplant platforms.

Skills

- **Programming Languages:** C, C++, Python, Java, Visual Basic, Assembly, HTML, JavaScript, CSS, SenseTalk, PaceWords
- **Optimization/Speed:** Multi Thread on Embedded Systems, Bus Traffic Configuration, Power Saving, Interrupts, Optimizing Speed with Oscilloscope

- **User Interface Design:** UI Mock Up, UI Design, Persisting Options
- **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

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.