

AUSTIN FISK

[Http://pages.cs.wisc.edu/~fisk/](http://pages.cs.wisc.edu/~fisk/) | 608-393-5902 | fiskaustin.af@gmail.com

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

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| Embedded Software Engineer
HP Tuners — Buffalo Grove, IL | Aug 2022 to Current |
| 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
Reconyx — Verona, WI | Jan 2021 to Aug 2022 |
| 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
MCANTA — Madison, WI | Jan 2019 to Aug 2022 |
| Working with customers and fellow employees to assist in their robotic process automation development. Copado and Eggplant platforms. | |

Skills

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| <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• 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 |
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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.