JASON FEVANG RESUME

Status: C++ Developer, Embedded Software Engineer Tech: C++11, Python, FreeRTOS, microcontrollers, PWM, hardware protocols, Git, Jira, Visual Studio, Linux, Windows Personal Interests: Vim, Arch Linux, Soccer, Guitar Vancouver, Canada jasonfevang@gmail.com github.com/jasonfevang 604-401-4643

Summary

I'm a computer engineering graduate specialized in C++ development in the embedded space. Currently, I'm focused on developing custom LED solutions for the film industry in Vancouver

Experience

Software Developer | Team Lead - Better Way Lighting

2019 - Current

- · Led a team of up to three software developers, in collaboration with hardware engineers, designers, and stake-holders to develop LED panels, DMX decoders, smart bulbs and more used on film sets globally, including Avatar 2 and Riverdale
- · Introduced automated and manual testing to avoid regressions and improve software quality company-wide

Software Developer | Co-op - Sierra Wireless

2017 - 2018

- · Enhanced the Sierra Wireless API to the Qualcomm cellular communication chip for specialized Windows laptops from various manufacturers in C++
- · Tested Wake-On-Lan capabilities of the chipset on pre-release laptops

QA Engineer | Co-op - ACL Services

2016

- · Developed our team's automated test suite using Capybara and RSpec which greatly improved test coverage
- · Built a performance stress-testing tool in Ruby to generate database entries through ACL's API which allowed more thorough testing for the quality assurance team

Projects

STM8 Decoder Firmware and Bootloader - Better Way Lighting

2022

- · Reverse-engineered and wrote custom firmware in C for six varieties of DMX512 decoders, with over 1000 devices programmed
- · Developed a custom bootloader and programmer(ESP32) to update decoders through the DMX input
- $\cdot \, \text{Automated all configuration, build and flashing tooling using makefiles and python scripts for development with the COSMIC STM8 Toolchain}$

Household Waste Pickup Indicator - Personal Project

2022

- · Wrote a web server in Rust that exposes a REST interface serving the next waste pickup event
- · Designed a custom PCB for an ESP32 that queries my server's endpoint and indicates if today is a pickup day

Handheld Dmx Multitool - Better Way Lighting

2021

- \cdot Developed a full-color UI using LVGL, abstracted such that UI development occurred on desktop, then was cross-compiled to the ESP32
- · Led an agile-based scrum team of two members to coordinate development efforts
- · Architected application software in C++, supporting hardware features such as SD card use, DMX512, Wi-Fi, battery management and more

Education

BASc Computer Engineering - Simon Fraser University

2015 - 2019

· Bachelor of Applied Science, Computer Engineering (With Distinction), 3.92 CGPA