Wilson Scott

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Technical Skills

Software: C, Python, C++, Java, JavaScript, HTML, CSS
Hardware: AVR Atmega 328p, Orange Pi/Allwinner H618, Raspberry Pi, ESP8266/ESP-01
Libraries and Frameworks: Numpy, Pandas, PyTorch, Tensorflow, Keras, SciKit-Learn, Matplotlib, SQL
Tools: Vim, Git, Make, Jira, Jenkins

Business Skills

Interpersonal: Negotiation, conflict resolution, client relationship management
Analytical: Research and analysis, risk management, writing and drafting
Management Skills: Time management, resource management, strategic planning

Experience

Embedded Software Engineer Co-op, Sierra Wireless – Richmond, BC May 2022 – December 2022

- Designed and implemented a Python tool to troubleshoot devices that failed configuration testing on the factory line
- Wrote a Python command-line tool using Jira's REST API that improved the configuration-test team's workflow when managing new tickets
- Debugged a Yocto recipe that improved the recipe's compatibility with new hardware
- Revised documentation used by factory workers for debugging production line issues by implementing a plain-language approach to technical content

Counsel, Murphy & Company LLP – Vancouver, BC January 2019 – September 2021

- Managed time sensitive matters ranging from pre-litigation disputes to contractual negotiations while working within client budgetary constraints
- Regularly distilled complex legal principles into clear and accessible summaries for clients, facilitating informed decision-making for clients

Projects

Orange Pi Zero3 Boot Wizard github.com/wil-scott/Zero3-Boot-Wizard

- A command-line Python tool that can general a bootable image for the Orange Pi Zero3 and format a micro-sd card with it
- Used OOP design principles to automate an approximately 1-hour long process of cloning repositories, compiling binaries, bootstrapping the root filesystem, and formatting the destination block device

Tabletop Vehicle github.com/wil-scott/tabletop-vehicle-project

- A battery-powered vehicle that drives until a surface edge is detected, turns to a safe direction, and continues driving
- Designed a schematic to map out connections for each sensor and component
- Wrote drivers in C for the HC-SR04 distance sensor, the OLED screen, and the L293D motor module
- Wrote an I2C driver in C using the ATMEGA328p's two-wire serial interface (TWI) module

IoT Environment Monitoring Device bcit-reseach-long-term-issp.github.io/

- Collaborated within a multidisciplinary team to develop a device that can collect real-time water quality data
- Refactored a legacy codebase from C to C++ and designed a test plan to maintain code functionality
- Wrote handover documentation outlining the refactoring and redesign work to ensure knowledge transfer for future teams

Education

British Columbia Institute of Technology – Computer Systems Technology Diploma 2023
University of British Columbia – Juris Doctor 2016
Trent University – Bachelors of Business Administration, Honours 2013

Memberships

Law Society of British Columbia 2016