

# SELIKEM KWADZOVIA

Surrey, BC

(604) 720-2767

SelikemKwadz@gmail.com

Kwadzovia.com

---

## SKILLS

### Software

- C and C++
- MATLAB and Simulink
- Python
- SolidWorks
- Sensor Integration
- I2C, SPI, UART

### Hardware

- Embedded Systems Design
- Board Bring-up
- PCB Design
- Rapid Prototyping
- MSP430
- PIC32 MCUs

---

## TECHNICAL WORK EXPERIENCE

### Product Engineer Co-op

September — December 2021

Microchip, Burnaby, BC

- Completed bring up for Meta-Dx2L characterization board
- Wrote Python scripts to interface with sensors using I2C
- Created self-test functions for GPIO expanders, ADC's, sensors
- Debugged customer issues involving SerDes Bit-Error Rate

### Software Video Compression Co-op

April — December 2018

Intel of Canada Ltd, Vancouver, BC

- Developed Python scripts to streamline data collection
- Completed code cleanup of C++ based SVT-HEVC encoder
- Lead daily visual and quantitative assessments on various encoders
- Provided feedback to developers based on the performance of new features

---

## ENGINEERING PROJECTS

### Battery Management System

January 2021 — August 2021

Capstone Design Technical Project I

- Four-person project involving mechanical, electrical, and software design
- Battery monitor handling protection, state of charge, and health estimation
- Used embedded C with PIC32MX530F128H
- Designed MCU section of PCB

### Washing Machine Simulator

March — April 2020

Real-Time and Embedded Control Systems

- Physical user interface with PWM controlled motors
- Controlled using TM4C123GH6PM and embedded C

---

## EDUCATION

Simon Fraser University

Graduating Spring 2022

- BAsC – Mechatronic Systems Engineering