

# SELIKEM KWADZOVIA

Burnaby, BC

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## SKILLS

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### Software

- C and C++
- Python
- MATLAB and Simulink
- Low-Level Driver Development
- Bootloader Development
- Unit, Functional, and Integration Testing
- Interoperability Testing
- Release Management
- Communication Protocols (I2C, SPI, UART)

### Hardware

- Hardware Debugging
- Board Bring-up
- PCB Design
- Rapid Prototyping
- PCIe Gen3 & 4 Protocol
- NVMe Protocol
- Soldering
- Lab Tools (DMMs, BERTs, Oscilloscopes)
- MCUs (STM32, MSP430, PIC32, ESP32)

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## TECHNICAL WORK EXPERIENCE

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### Systems Engineer, Product Validation Team

February 2022 — Present

NETINT Technologies Inc, Burnaby, BC

- Develop and maintain bootloader and device firmware
- Collaborate with multiple teams to investigate and root cause critical customer-facing issues
- Release gatekeeper for low-level driver code and PCIe firmware
- Developed flash-based key-value storage to configure devices on the fly without new firmware
- Ported functional tests (e.g. Flash, DMA, Watchdog) to newer projects
- Completed PCI-SIG Gen 4.0 compliance testing workshop on a solo trip

### Product Engineer Co-op

September — December 2021

Microchip, Burnaby, BC

- Completed bring-up for Meta-Dx2L characterization board
- Wrote Python scripts to interface with temperature, current sensors, and regulators.
- Created self-test functions for GPIO expanders and ADC's
- Supported investigation on abnormal Serdes Bit-Error Rates

### Software Video Compression Co-op

April — December 2018

Intel of Canada Ltd, Vancouver, BC

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

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## EDUCATION

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Simon Fraser University

2022

- BAsC – Mechatronic Systems Engineering