

Michael Dobinson

MASc Student

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Victoria, Canada 📍

I am pursuing a Master of Applied Science degree in Electrical and Computer Engineering with a desire to continue to a PhD and an academic career. My current research focus is nanoplasmonics and single photon sources with an interest in quantum applications. I wish to continue to develop my skills and knowledge and broaden my teaching experience.

EDUCATION

MASc in Electrical and Computer Engineering University of Victoria

09/2020 - Present

GPA: 8.80

BEng in Electrical Engineering University of Victoria

09/2013 - 08/2018

GPA: 8.15

WORK EXPERIENCE

Hardware Engineer (EIT) Kobelt Manufacturing

08/2018 - 08/2020

Surrey, BC

A Canadian-based manufacturing company, developing and producing products for the marine and industrial sectors.

Achievements/Tasks

- Designed products for marine steering including high-level functional design and low-level electronics.
- Managed co-op students and provided guidance on their projects and learning goals.
- Organized and ran product development meetings and software training sessions.
- Completed the electrical design and PCB layout for new steering products including the full electrical design of a novel steering product from concept to pre-production units.
- Developed the initial driver layer for an embedded system based on an STM32 MCU.

Hardware Developer (Co-op) LineSpect

05/2016 - 04/2017

Richmond, BC

A Canadian company developing self-driving drones for power line inspection applications.

Achievements/Tasks

- Electronic design and PCB layout for precision sensor circuitry, high-speed digital, and power distribution systems.

Embedded Software Engineer (Co-op) Delta-Q Technologies

09/2015 - 12/2015

Burnaby, BC

A manufacturer of industrial battery chargers for lead acid and lithium-ion batteries.

Achievements/Tasks

- Developed embedded firmware in C for multi-chemistry battery chargers.

SKILLS

Embedded Hardware Design

Leadership

Organization

Embedded Firmware

STM32 MCUs

Eclipse IDE

C

Python

MATLAB

Functional System Design

Soldering

EXTRACURRICULAR

Vice President, UVic OSA Student Chapter (07/2021 - Present)

- Beginning to work to plan an invited lecture for UVic students on optics/photonics topics.

Embedded Systems Lead, UVic AERO Student Team (2015 - 2017)

- Lead the embedded systems team in developing firmware for AERO's camera gimbal, antenna tracker, and other systems.
- Ran teaching sessions with students and organized weekly meetings.

CERTIFICATIONS

Amateur Radio Operator

Advanced, Basic with Honours (VA7GND)

LANGUAGES

English

Full Professional Proficiency

REFERENCES

Available upon request.