Mike McClintock

First Year Computer Engineering Student

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Languages
- C, C++, Python, Javascript, VHDL, Java
- HTML, CSS, XML/KML

Hardware
- Intel MAX10 FPGAs
- STM32 Microcontrollers
- Arduino

Tools and IDEs
- Altera Quartus II, Cadence Allegro, OrCAD
- Android Studio, Keil uVision, Eclipse
- QGIS, Google Maps API, Git, Bash

EXPERIENCE

A Robotics Company
Embedded Engineering Intern
Worked with the Electrical Engineering team on the Advanced Robotics - [name redacted] project

- Went through entire **PCB development** cycle from schematic drawing to production with **Cadence**
- Programmed STM32 Microcontrollers from scratch with **Embedded-C** and piloted the use of STM32CubeMX software to shorten development time within the team
- Acquainted with **Agile Development** with **JIRA Software**
- Shortened infrared sensor testing times in half by rewriting and debugging old microcontroller code

A Government Office
Government Intern
Assisted with the day-to-day operations of [certain political office]

- Demonstrated exemplary writing and judgement skills by drafting official letters to Ministers and Members of Parliament on behalf of [office]
- Assisted in the maintenance of [database software] for constituents and used mapping technology to shorten planning time for outreach canvassing
- Procured efficient communication skills by assisting with intake of constituent casework files

EDUCATION

Bachelor of Applied Science, Computer Engineering
University of Waterloo
2016 - 2021
President's Scholarship Award Recipient

PROJECTS

Election 2019 Map Kit
Python, KML, QGIS, Google Maps API
www.github.com/link/
A data visualization tool for local campaigns to see poll-by-poll voting results from the 2015 Federal Election in Google Maps to prepare for the 2019 Campaign.

Shake-2048 Sensor-Based Android Game
Java, Android Studio
www.github.com/link/
Part of a team of three that created our take on the popular 2048 game - instead of swiping to move the blocks, motion sensors detected device movement for gameplay

INTERESTS

- Discussing Politics
- Third Generation Vancouver Canucks fan, also a certified ice hockey referee
- Classical music, RCM Level 10 Certificate holder