

Mark Wong (*He/Him*), Electrical Engineering

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TECHNICAL SKILLS

Software

- C
- Python 3
- Matlab/Simulink
- HTML/CSS/JavaScript

Hardware

- Circuit Analysis/Design
- Arduino
- FPGA
- Verilog
- Solidworks/KiCAD

Languages

- English
- Japanese

EDUCATION

University of British Columbia

September 2019 - Present

Bachelor of Applied Science - Electrical Engineering, Biomedical Option

WORK EXPERIENCE

M2/W2 Association, Abbotsford, BC

May, 2021 – Present

Training and Support Analyst

- Trained ~20 staff members on Microsoft Office 365 products (Teams, OneDrive, SharePoint, Word, Excel, and PowerPoint) as part of change management
- Provide technical support via MS Teams for staff requiring technical assistance

Robert Nimi Nikkei Home, Burnaby, BC

August, 2017 – September, 2017

Work Experience Student

- Repaired residence's appliances
- Renovated floors
- Painted/filled walls

TECHNICAL PROJECTS

Submarine Control System, SUBC

September, 2020 – Present

- Designed a compact circuit capable of being placed in a specified waterproof enclosure
- Programmed Arduino to allow for variable propulsion speeds

Inductive Metal Detector, UBC

March, 2021 – April, 2021

- Designed a circuit to detect changes in frequency when the inductor encounters metallic objects
- Programmed ATMEGA328P microcontroller to determine classification of metal types

Cup Capacitor, UBC

February, 2021 – March, 2021

- Designed to facilitate operation by visually impaired users
- Constructed a circuit to detect changes in capacitance when water is poured into cup
- Programmed 8051 microcontroller to play audio to inform user how full their cup is

ENGINEERING STUDENT TEAMS

SUBC, UBC

June, 2021 – Present

Propulsion Team Lead

- Organizing budgets and team meeting documentation
- Assigning tasks and coordinating with team members
- Designing and implementing electronic system to propel submarine
- Overseeing electronic components to meet motor and safety specifications

SUBC, UBC

October, 2019 – June, 2021

Propulsion Team Member

- Aided in the design and development of a non-propeller-based, manta ray inspired submarine
- Placed 3rd and 2nd at the European International Sub Race (EISR) 2020 and EISR 2021 respectively
- Developed state machine for submarine prototype

VOLUNTEER EXPERIENCE

Burnaby Government, Burnaby, BC

September, 2018 – May, 2019

Youth Voice Committee Member

- Planning and running events to increase youth engagement with the city community
- Advised and gave input on civic issues that impact youth
- Received Youth Citizenship Award in recognition of my contributions to the youth in Burnaby

Vancouver Aquarium, Vancouver, BC

August, 2015 – September, 2016

Gallery Assistant Work Experience (WEX) Student

- Interacted with guests to ensure quality visitor experience
- Managed line-ups for ticket purchases
- Assisted in memberships and ticket verification
- Assisted with general guest inquiries at the information desk

AWARDS

UBC Dean's List

2019 - 2020

Youth Citizenship Award

2019

BC Achievement Scholarship

2019

INTERESTS & ACTIVITIES

- Investing
- Accessible Technology
- Karate (Black Belt)
- Volleyball