

Lisa Wang

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EDUCATION

THE UNIVERSITY OF BRITISH
COLUMBIA – FOURTH YEAR

Expected Completion: April 2023

B.A.Sc. Electrical Engineering, Biomedical Option

CO-OP STATUS

WORK TERMS COMPLETED 2/4

AVAILABILITY 4 or 8-month term

TECHNICAL SKILLS

LANGUAGES

C/C++	HTML
Python	CSS
JavaScript	JSON
SystemVerilog	GraphQL
Verilog	Markdown
Assembly	

SOFTWARE

VS Code	Office 365
ReactJS	Quartus Prime
Gatsby	ModelSim
CLI	MATLAB
Git/Bitbucket	SolidWorks
Jira	OnShape
CMake	Altium Designer
PlantUML	LTSpice
LaTeX	CircuitMaker

HARDWARE

Arduino	Circuit Design
De1-SoC	PCB Assembly
ESP-32	3D Printing

OPERATING SYSTEMS

Linux
Microsoft Windows
Mac OS

TECHNICAL WORK EXPERIENCE

INTEL CORPORATION – Vancouver, BC May 2020 – Dec. 2020
Firmware Engineering Co-op – Non-Volatile Memory Solutions Group (NSG)

V2 SANITIZE FEATURE MODULE

- Refactored feature code base with test-driven development – implemented a modular design and improved overall readability and usability (C/CMake).
- Developed and documented comprehensive unit tests utilizing Google Test – increasing unit test code coverage by 46% (C++).
- Actively collaborated in Agile software development, participated in daily stand-up meetings, groomings, retrospectives, and code-reviews (Git, Bitbucket, Jira).

QEMU BASED TRANSPORT SIMULATOR

- Designed and implemented drive simulation program feature, providing an efficient testing platform alternative by reducing firmware testing duration (C/C++/JSON).
- Generated design documentation of implemented design (PlantUML/Markdown).
- Debugged and resolved failing system level tests (Python/C).

TECHNICAL PROJECTS

PORTFOLIO WEBSITE – Vancouver, BC Jun. 2021 – Current
Personal Project

- Built a portfolio website using a React-based framework to showcase projects and information (Gatsby, ReactJS, HTML).
- Designed responsive and user-friendly webpages (CSS).
- Dynamically rendered and presented site data from JSON files utilizing GraphQL.

SMART BLIND ATTACHMENT – Vancouver, BC Jul. 2021 – Aug. 2021
Personal Project

- Fabricated an IOT smart blind device allowing simple roller blinds to be controlled by the Google Assistant via an ESP-32 board (Arduino, C++, Circuit Design).
- Designed and resin 3D printed housing and gear components (OnShape/VoxelPrint).

PIANO PLAYING ROBOT – UBC, Vancouver, BC Jan. 2020 – Mar. 2020
ELEC 391 (Team of 4) – Controls Member

- Programmed (C/C++) and simulated (MATLAB Simulink, SimulationX) a PID controlled 4-bar linkage robot arm to accurately play a miniature piano.
- Designed and 3D printed robot arm, gears, and mounting system (Onshape/Cura).

AUTONOMOUS WASTE ROBOT – UBC, Vancouver, BC Sept. 2019 – Nov. 2019
ELEC 292 (Team of 4)

- Designed, programmed and constructed a fully automated Arduino based line following robot - capable of distinguishing waste by material and disposal into corresponding bins (C).

EXTRACURRICULARS

UBC ELECTRICAL AND COMPUTER ENGINEERING STUDENT SOCIETY
Vancouver, BC – Vice President Student Life Aug. 2019 – Apr. 2020

- Elected by student body to coordinate several large-scale and small-scale social events – promoting undergraduate student engagement.