Lisa Wang

5665 Boundary Rd. Vancouver, BC
liswang24@gmail.com
236-983-6188
linkedin.com/in/lisajialeiwang
lisajialeiwang.gatsbyjs.io

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 month term

TECHNICAL SKILLS

LANGUAGES

- C/C++
- C#
- Python
- Java
- JavaScript
- JSON
- CSS
- HTML
- Markdown
- GraphQL
- Assembly

SOFTWARES

- VS Code
- Office 365
- ReactJS
- CLI
- Git
- Jira
- Gatsby
- PlantUML
- LaTeX

OPERATING SYSTEMS

- Microsoft Windows
- Mac OS
- Linux

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

Jun. 2021 – Current

Personal Project – Vancouver, BC

- 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

Jul. 2021 – Aug. 2021

Personal Project – Vancouver, BC

- 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

Jan. 2020 – Mar. 2020

ELEC 391 (Team of 4) – UBC Vancouver, BC

- 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

Sept. 2019 – Nov. 2019

ELEC 292 (Team of 4) – UBC Vancouver, BC

- 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

Aug. 2019 – Apr. 2020

Vice **President Student Life**

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