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-month term

TECHNICAL SKILLS

LANGUAGES

- C/C++
- Python
- SystemVerilog
- Verilog
- Assembly

SOFTWARE

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

HARDWARE

- Arduino
- De1-SoC
- PCB Assembly
- Green Hills Software
- Dediprog

OPERATING SYSTEM

- Linux
- Microsoft Windows
- Mac OS

OTHER

- Command Line Interface
- VNC
- NVMe Specification

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 firmware feature code base using a test-driven developmental approach – implemented a modular, state machine-based design and improved overall readability and usability (C/CMake).
- Validated code through development of 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 new blob preservation feature on drive simulation program, providing an efficient testing platform option to real drive testing by reducing firmware test duration by a factor of 6. (C/C++/JSON)
- Generated design documentation including UML diagrams of newly implemented design (PlantUML/Markdown).
- Debugged and resolved failing system level tests (Python/C).

TECHNICAL PROJECTS

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).
- Fabricated an Arduino shield containing motor driver and encoder circuits (Altium) and soldered components onto PCB shield.

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

- Designed and constructed a fully automated line following robot - capable of distinguishing waste by material and disposal into corresponding bins.
- Programmed robot and sensor controls on an Arduino Uno microcontroller (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.

BIONICS ENGINEERING ANALYSIS AND RESEARCH DESIGN TEAM
Vancouver, BC – **Electrical Sub-team Member** — Sept. 2018 – Nov. 2019

- Designed and prototyped circuits for the GRASP arm – a low-cost robotic bionic arm (Altium Designer).
- Assembled and soldered components onto custom PCB boards.