Ming Rui Zhang

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TECHNICAL SKILLS

- C++17, C, Qt, Python, OpenGL, Gerrit, Jenkins

WORK EXPERIENCE

Savoir-faire Linux (Jami), Montreal - *Software Developer* **MAR. 2019 – DEC. 2021**

- Designed and Developed Jami clients on multi-platform.
- Maintained and managed the CI/CD systems for Jami clients.
- Participated in QML migration for Jami clients.
- Assisted the adaptation of Jami dependencies to build natively on Windows.

E-Innovation, Montreal - *Automation Developer Intern* **MAR.2017 – AUG. 2017**

- Cooperated with a Mechanical Engineering student to automate the sealing and taping progress of making a new type of electrode.
- Designed a system based on 3D printed parts and circuits controlled by certain logic uploaded in the Arduino Uno logic board
- Wrote Arduino code and designed circuits by using electronic devices which include step motor, motor driver, switches, relays, etc.
- Wrote weekly documents which include the progress, the design, and the logic of the system and present to the project manager in weekly presentations.

ACADEMIC PROJECTS

IoT – Sensor Data Management from Hardware to Cloud **NOV. – DEC. 2017**

- The system aimed to send recorded audio data from the programming board over the BLE (Bluetooth Low Energy) connection to the smartphone device. This data was saved as a file in the smartphone and uploaded to cloud device.
- Implemented sound recording, board interconnections, and BLE hardware part in Embedded C.
- Used various techniques including SPI and UART.

Circuit Modelling & Simulation Project **SEP. 2017– MAY. 2018**

- Developed a programme that can read a relatively simple circuit netlist and convert it into a Modified Node Analysis (MNA) equation in matrix form.
- By using the MNA information, it could perform DC, frequency domain, and sensitivity analysis and show the results in the written GUI.

Automated Robot Competition **SEP. – DEC. 2015**

- Designed and created an automated robot in a team of six by Lego Mindstorms EV3 kit.
- The robot was controlled by Java programmes that can perform different tasks synchronously
- Many tests were done to reduce the errors produced by sensors.
- Weekly documents and presentations were also counted in the competition.

EDUCATION

McGill University, Montreal Quebec **SEP. 2014 – MAY. 2018**

- B.E. in Electrical Engineering
- GPA: 3.56/4.00

University of Waterloo, Waterloo, Ontario **MAY. 2022**

- MEng in Electrical & Computer Engineering
- Software specialization