Ming Rui Zhang

Address: 1380 Ch.des Prairies, Brossard, Quebec, J4X1G1
E-mail: mingrui.zhang@mail.mcgill.ca
Website: https://mingruizhangw.github.io
GitHub: https://github.com/MingruiZhangW
Phone Number: +1 514-517-4228

SKILLS

Tools & Technologies: C++17, C, JavaScript, Qt, Bash, Batch, Powershell, Python, OpenGL, Git, Gerrit, Jenkins

WORK EXPERIENCE

MAR. 2019 – PRESENT | **Software Developer at Savoir-faire Linux (Jami), Montreal**

- Design and Development of Jami clients on multi-platform.
- Maintain and manage the CI/CD systems for Jami clients.
- Jami clients QML migration.

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

- 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

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

- 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.

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

- 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.

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

- 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