MICHELLE DANG

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Summary of Qualifications

Experience With

Java | Python | Racket | C | HTML/CSS | Android Studio

Education

Bachelor of Computer Science, 2021

University of Waterloo

High School Diploma + Ontario French Immersion Certificate, 2016

M.M. Robinson

Honours, Awards, Achievements

Miriam Collins Leadership Award - 2016

Canadian Federation of University Women's Club

Auxiliary Scholarship Award - 2016

Joseph Brant Hospital & Foundation

Languages Department Award - 2016

M.M. Robinson High School

Silver with M.M. Robinson's Senior Concert Band and Senior Jazz Band - 2016

Musicfest Canada

President's Scholarship of Distinction - 2016

University of Waterloo

Extracurricular Experience

Midnight Sun Solar Race Car Design Team

Software Team Member (Nov 2016-Present)

- Developed code in C for the MSP430 microcontroller to control outputs using bitwise operations and interupts.

FIRST Robotics Team 2200

Team Captain and Programming Team Lead (Sept 2015-Apr 2016; 8 months)

- Developed code in Java for the RoboRIO microcontroller to control the team robot (used PID Controllers, FRC Libraries, CAN subsystem)
- Collaborated with other team members and subteams while developing code, and using Github for version control
- Organized lessons to teach Java to junior team members

University of Waterloo Math Faculty

Math Ambassador (Oct 2016-Present)

- Collaborated with other ambassadors to plan University of Waterloo's Fall Open House
- Answered questions and guided parents and high school students at the Fall Open House

Projects

Hockey Rink Lap Timer

- Created a no-touch timer (using an Arduino Micro) to display and record hockey rink lap times.
- Developed a program in Arduino C to control outputs such as 7-segment LEDs and LCD Monitors with inputs such as Infrared Sensors and Buttons
- Communicated with the intended audience of the product to create the design while also collaborating with another student

Quiz Maker

- Developed a program in Java intended for teachers to create a user-friendly GUI for a quiz by inputting multiple choice, true/false and short answer questions
- Used Java Swing Library to develop a GUI for the quiz

Autonomous Robot

- Developed an Autonomous VEX Robot which would provide a livestream of it's voyage to Twitch
- Developed a program in VEX RobotC to control the robot's drive system autonomously with inputs such as Ultrasonic Sensors and Bumper Switches

Work Experience

Staples

Customer Service/Cashier(July 2014-Jan 2016; 19 months)

- Provided customer assistance, processed purchases, and balanced till drawer.