

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

President's Scholarship of Distinction - 2016

University of Waterloo

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

Extracurricular Experience

FIRST Robotics Team 2200

Team Captain and Programming Team Lead (Sept 2013-Apr 2016)

- Developed code in Java for the RoboRIO microcontroller to control the team robot (utilized PID Controllers, FRC Libraries, CAN subsystem)
- Co-Lead of seven member programming sub-team and organized lessons to teach Java to junior team members
- Communicated and collaborated with mechanical and electrical sub-teams while designing code and using Github for version control

Midnight Sun Solar Car Design Team

Software Team Member (Nov 2016-Present)

- Developed code in C for the MSP430 microcontroller to control outputs using bitwise operations and interrupts
- Worked with the UART communication protocol to contribute UART drivers to core team libraries

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.
- Designed a program in Arduino C to control outputs such as 7-segment LEDs and LCD Monitors with inputs such as Infrared Sensors and Buttons
- Addressed product design with the intended audience to create the timer 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

- Built an Autonomous VEX Robot which provides a livestream of it's voyage to Twitch
- Designed 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.