



# JIawei (JARVIS) WANG

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## HIGHLIGHTS OF QUALIFICATIONS

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- Currently enrolled in level 2 of the 4-year Computer Engineering co-op program
- Experienced with **Python**, C and Javascript through multiple projects and 4 months of software developer co-op
- Experienced in **Autodesk Inventor** through chassis design for Rescue Robot project and course work
- Strong written and verbal communication skills developed while working as Math & Physics **Tutor** at MacBridge Academy
- Excellent organizational, teamwork and leadership skills displayed as President of McMaster Sumobot Club

## EDUCATION

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### Bachelor of Engineering, Computer Engineering Co-op

Expected Completion, June 2022

McMaster University, Hamilton ON

- Awarded the McMaster Entrance Scholarship for an 95% grade-point average in high school
- Achieved a GPA of 9.5 and the Dean's Honour Roll (2017-2018)

#### Relevant Courses:

- Engineering Design and Graphics
- Engineering Computation
- Principles of Programming

## WORK EXPERIENCE

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### Application Developer, Faculty of Health Sciences

May 2018 - Aug 2018

McMaster University, Hamilton ON

- Developed a web application to facilitate more efficient generation of clinical simulation scenarios used to train health care providers, decreased the generation time by 50%, built with Node.js, Express, MongoDB, and **Python**
- Migrated the application and existing simulation data from internal data centre to AWS

### Mathematics & Physics Tutor

Jan 2018 - May 2018

MacBridge Academy, Hamilton ON

- Assisted in **tutoring** high school students in Math and Physics courses
- Documented individual student reports for parents to monitor student progress and improvements
- Developed action plans and worksheets based on students' and educators' academic goals
- Multitasked by assisting 2-4 students of varying grades per session

### Embedded Software Engineer Intern

July 2017 - Aug 2017

Wingtech Technology Co.Ltd., Shanghai, China

- Researched, designed and implemented scalable applications of VR headset
- Responsible for software requirement analysis and testing for setup of RTOS on the headset

## TECHNICAL SKILLS

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**Programming Languages:** Python, C, Java, Swift, JavaScript, HTML, CSS, LATEX, Matlab

**Database/Frameworks:** Node.js, Express.js, MySQL, MongoDB, Git, Bash, AWS, OpenCV

**Hardware:** Arduino, Raspberry Pi, Linux, PLCs, **3D Printing**

**Graphic Design/Document:** AutoCAD, **Autodesk Inventor**, Photoshop, Microsoft Office

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## PROJECTS

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### Driver Attention Alert System (D.A.A.S)

2018

- Developed an alert system to detect drowsy driving when CAV and ACC tech is enabled through eye-tracking with dual camera as well as multiple linear pressure sensors and vibration motors integrated on a steering wheel. Built on Raspberry Pi and Arduino with OpenCV (**Python 3**) and machine learning.

### Music'o at Hack the Valley II

2018

- Worked in a team of 4 to develop a web application called Music'o, which aimed at helping people relax their mind, mood and body by playing music according to the weather in current city (via Yahoo weather API, geolocation API and Spotify API)

### Rescue Robot at RoboCup Junior 2015

2015

- Worked in a team to build an Arduino robot identifies victims within re-created disaster scenarios, varying in complexity from line-following on a flat surface to negotiating paths through obstacles on uneven terrain
- Designed and 3D printed the chassis of the robot with **Autodesk Inventor**

## VOLUNTEER & EXTRACURRICULAR ACTIVITIES

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### President

April 2018 - Present

*McMaster Sumobot Club*, Hamilton ON

- Coordinating the entire executive team, organizing the club activities (two robotics competitions and info sessions) and communicating with school departments
- Built a tutorial team to hold multiple Arduino and circuits lectures
- Established the partnership with McMaster IEEE Student Branch

### Set-up and Information

April 2018

*First Robotics at McMaster*, Hamilton ON

- Set up, promoted social in the pits and stands, directed people from DBAC to the Hall, and socialized with students.
- Responsible for Q&A to the passing visitors and participants

**REFERENCES AVAILABLE UPON REQUEST**