

Ayman Akhras

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EDUCAUTION

Software Engineering Program (Co-op Student)

MCMASTER UNIVERSITY

3.9 Cumulative GPA

Expected Completion Date: APR 2024

- Prestigious 4-year program of a full undergraduate Software Engineering degree
- Related Courses: Data Structures and Algorithms, Databases, Concurrent Design, Software Requirements

SKILLS

Programming Languages: Python • Java • C# • C++ • C • SQL • LaTeX • Verilog • Golang • Bash • MATLAB

Web/App Development: HTML • CSS • JavaScript • Flutter/Dart • React • Node.js • MongoDB • Grafana

Development Tools: Docker • Ubuntu • GitHub • Azure • AWS • .NET • Terraform

WORK EXPERIENCE

McMaster University

Hamilton, ON

Research Assistant Coop

May. 2021 – Sep. 2021

- Implemented a tracking system using the **ROS**, Jetson Inference, VidStab, **TensorFlow** and numerous other libraries on an **Ubuntu** 18 system enabling for smooth tracking despite shifts in the camera's vertical and horizontal location.
- Soldered motor connections to smart car driver and **Jetson Nano** to create an effective car robot.
- Created new developer onboarding documentation to ensure future employees can transition quickly and effectively onto Agile Software Development and Research Team for Dr. Ishwar Singh.

PROJECTS

My Personal Website

- Each year the creation of a website with a different framework to reflect on my achievements
- Applied Web Development and design skills to create a website written in **JavaScript**, **HTML**, and **CSS**.

Voting Verifier

Hamilton, ON

<https://github.com/DFong298/MEC-Voting-Verifier>

McMaster Engineering Competition

- Constructed a scanner that would print words displayed on an image using OpenCV and Pytesseract in **Python**.
- Leading in the communication of the team and **winning** in the McMaster Engineering Competition

Lumeny

Waterloo, Ontario

<https://github.com/Drom0s137/Lumeny>

Hack The North

- Designed the UI/UX of the app, creating a high-fidelity mobile app prototype to function with the back end.

EXTRACURRICULARS

McMaster Solar Car Project

Hamilton, ON

Software and Electrical Lead

Dec. 2020 – Present

- Lead in the creation of LV board of the vehicle creating the schematic of the board in EAGLE and programming the vehicles car signals and hazard signal using the microchip of PIC18FK40 and the program MPLAB.
- Leading the team of Data Acquisition and CANBUS using my skills of bit manipulation and knowledge of embedded systems. Enabling communication between Microchips via transceivers.

McMaster Unity Developers

Hamilton, ON

Project Manager

Sep. 2020 – Present

- Created and managed an interdisciplinary team to create a 2-dimensional platform game using **Unity** and **C#**.
- Utilized **GitHub Teams** to integrate code while following the waterfall design process.

McMaster DeltaHacks

Hamilton, ON

VP Events

Sep. 2021 – Present

- Took initiative to promote social media channels resulting in a following of more than 1000 on Instagram.
- Communicated unique ways to engage our local and global community in the creation of the annual hackathon.