

# Hamayoon Ashraf

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## EDUCATION

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### Toronto Metropolitan University

*BEng, Mechanical Engineering - Mechatronics Option*

Toronto, ON

*Sep 2019 – Apr 2024*

## EXPERIENCE

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### Supervisor

*Simply BBQ*

Mar 2020 – Aug 2021, May 2023 – Present

*Mississauga, ON*

- Assisting with catering and inventory management
- Exhibiting strong communication abilities when communicating with customer
- Handling large-scale orders, such as weddings

### Manager

*Shawarma Royale*

Jan 2022 – Dec 2022

*Scarborough, ON*

- Managed inventory to ensure optimal stock levels and availability
- Resolved customer complaints and issues to improve satisfaction
- Scheduled and handled sales to drive revenue
- Managed financial records and reports to support decision making

## PROJECTS

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### Self-Driving Robot | *Arduino, C/C++*

Feb 2023 – Apr 2023

- Created a self-driving robot using Arduino and ultrasonic sensors to detect objects and navigate mazes
- Developed innovative algorithms for object detection and maze navigation

### Arithmetic Logic Unit - ALU | *16-bit ALU core in Intel Quartus*

Nov 2022 – Dec 2022

- Designed all the components of the device from scratch (Ex: Latches, 4-16 decoder, FSM, 7 segment etc)
- Implemented various operations such as addition, subtraction, modulation
- Tested by implementing the code on a FPGA

### Automated Door Unlocking System | *Arduino, Servo Motors*

May 2022 – Aug 2022

- Created a door access solution for individuals with disabilities
- Used Arduino, servo motors, and fingerprint sensors to ensure secure and efficient operation

### Space Mining Robot - TorontoMet Design League | *SolidWorks*

Oct 2020 - Feb 2021

- Assembled a robotic arm on SolidWorks that utilises jackhammers to drill through large rocks
- Produced detailed drawings and assembly diagrams for all parts of project as per requirements
- Devised a solution to mine rocks on Mars to support Earth's increasing demand for natural resources

### VisionX - DeltaHacks 6 | *Raspberry Pi, Python*

Feb 2020

- Led a group of 4 to create a device that assists individuals with visual impairment
- 3D designed and managed all of the wired components
- Wrote Python scripts for Raspberry Pi to control the ultrasonic sensors

## TECHNICAL SKILLS

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**Software:** MS Office, Solidworks, C/C++, Python, Arduino, AutoCAD, VHDL, Multisim, Simulink, MATLAB, Intel Quartus

**Hardware:** Drill Press, Soldering, Welding, Arduino, 3D Printing, Digital Circuit Design, PCB design