






Mostafa **AYESH**

Mechatronics Engineering Student

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Education

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| 2014 - 2020 | Bachelor of Mechatronics Engineering, McMaster University, Hamilton <ul style="list-style-type: none">➤ Registered in the Engineering CO-OP Program➤ Registered in the Management Program which helps develop management skills and professionalism |
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Skills

Programming : C++, C, Python, X86 Assembly, Java, Javascript, Bash, Verilog HDL, VBA
Tools : IntelliJ Idea, Visual Studio, Quartus II, Android Studio, SVN, git
Software : MATLAB, Simulink, Microsoft Excel, Word, Project
Hardware : ARM Cortex-M (STM32), Arduino, FPGA (Altera Cyclone II)
Operating Systems : Linux, Unix, Windows, macOS
Protocols : MQTT, CAN, UART, TCP/IP, SSH, FTP
Concepts : RTOS, OOP, SDLC

Experience

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| Fall 2017 | Undergraduate Teaching Assistant (SFWRENG 3K04), McMaster University, Hamilton <p>SFWRENG 3K04 is a software design process focused course that discusses Safety Critical Embedded Systems and Model Based Software Development. Responsibilities include :</p> <ul style="list-style-type: none">➤ Supervising and preparing material for the labs➤ Marking Assignments and Midterms <div style="display: flex; gap: 5px;">MATLAB SimulinkmbdOS (C++)</div> |
| Summer 2017 | Summer Undergraduate Research Assistant, McMaster University, Hamilton <p>In a team of 4 and under the supervision of Dr. Alan Wassying and Dr. Mark Lawford, developed a real-time Pacemaker system that runs on a variety of Embedded Microcontrollers.</p> <div style="display: flex; gap: 5px;">MATLAB SimulinkLABVIEWmbdOS (C++)</div> |
| Summer 2016 | Summer Trainee, Al-Sulaibiya Wastewater Treatment & Reclamation Plant, Kuwait <ul style="list-style-type: none">➤ Operated remote monitoring and control systems specifically SCADA➤ Observed installation of equipment on-site including Blowers and 11KV panels➤ Utilized effective communication skills by preparing weekly reports and a final written report <div style="display: flex; gap: 5px;">SCADA</div> |

Projects

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| 2017 - Present | curiosityOS <p>Leading a team of 4, curiosityOS is a real-time operating system for embedded applications designed to handle dual core communication used to receive and process data from multiple sensors in real-time.</p> <div style="display: flex; gap: 5px;">C</div> |
| Jan 2017 | The Cursor Bar, DeltaHacks III <p>Developed in a team of 2, an Android app that connects your phone to your Windows computer allowing the user to launch applications and to perform keyboard shortcuts on their computer.</p> <div style="display: flex; gap: 5px;">JavaPythonAndroid Studio</div> |

Awards and Honors

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| 2014 | President's Entrance Award Scholarship |
| 2014 - 2015 | Dean's Honor List |

Memberships and Extracurriculars

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| 2014 - Present | Student Member , Software Engineering Club, McMaster University |
| 2014 - Present | Student Member , Professional Engineers Ontario |
| Jan 2017 | Participant , DeltaHacks III Hackathon, McMaster University |