

SKILLS OVERVIEW

- Proficient in web development using HTML, CSS, and JavaScript.
- Knowledgeable in object-oriented development using Java.
- Experienced in programming scripts in Python and Bash.
- Well-versed in the process of designing, building, and testing moving vehicles and aerial systems.

WORK EXPERIENCE

- Operations Test Engineer Assistant** **Aeryon Labs Inc., Waterloo, ON** 06/2017 – 09/2017
- Programmed applications in Python and Bash used internally for the testing of various parts of the drone system.
 - Created work instructions and proper documentation for the scripts to make the process easier for the operators.
 - Created weekly and biweekly reports to present to my team and the managerial staff.
- Production Operator** **Aeryon Labs Inc., Waterloo, ON** 07/2016 – 09/2016
- Assembled, repaired, and inspected quality of multiple parts of the drone system.
 - Worked with various tiers of employees including fellow operators, engineers, managers, and the quality team.
- Soccer Referee** **Waterloo Minor Soccer Club, Waterloo, ON** 10/2013 – Present
- Communicated with people of all ages including the players, spectators, coaches, and fellow referees.
 - Proficient in encouraging the development of soccer players while enforcing the laws of the game.
 - Applied leadership skills to ensure the safety of all individuals at the game.

PROJECTS

- Web Developer** – ahmedhamodi.com 07/2016 – Present
- Created multiple responsive websites, including my personal portfolio, various hackathon websites, and more.
- Hack the North Participant** 04/2017 – 04/2017
- Created a server-side security suite for Linux servers containing three main components.
 - The project overrides the Linux password criteria to make it more secure, automates the configuration of firewalls for the user, and performs intrusion detection if anything gets past the firewall. All results are reported to user.
 - Solution was implemented using Python as well as HTML, CSS, and JavaScript for the intrusion detection website.
- Java Media Player Application** 06/2017 – 08/2017
- Programmed a media player application that finds .mp3 or .wav files from a directory, plays the song using multi-threading, displays the time of the song, and has options for next song, previous song, pause, play, and shuffle.
 - Used various engineering concepts with the planning, designing, executing, and testing of the application.
- Designer and Builder of Electric Vehicles** 09/2013 – 06/2017
- Used and explained complex concepts regarding the designing, constructing, and testing of the electric vehicles.
 - Applied leadership skills to ensure tasks are completed on time, and to a high degree of quality.
 - Designed, built, tested, and raced electric vehicles in preparation for various races in North America.
 - Programmed the Electric Car Club website: bluevaleelectriccarclub.github.io
- JAMHacks Third Place Winner** 04/2017 – 04/2017
- Created a multi-user program that allows users to simultaneously program together on a single script.
 - Solution was implemented using Python as well as HTML, CSS, and JavaScript for the supporting website.
- Java Applets** 11/2015 – 02/2016
- Planned, programmed, and tested various applets using Java through object-oriented development.

VOLUNTEERING EXPERIENCE

- YMCA SAYD Program** **YMCA, Waterloo, ON** 11/2014 – 06/2017
- Leadership skills displayed by setting up and encouraging the kids to participate in various activities and events.
- Peer Tutor** **Bluevale Collegiate Institute, Waterloo, ON** 09/2014 – 06/2017
- Responsibility and leadership skills are used to explain concepts and adapt to each student's learning style.

EDUCATION

- Software Engineering** **University of Waterloo** 09/2017 – 04/2022
- Candidate for Bachelor of Software Engineering (B. SE.).
- Ontario Secondary School** **Bluevale Collegiate Institute** 09/2013 – 06/2017
- 98% grade 12 average, Honours Role achieved, Leader of Electric Car Club, Fed Prov. and the peer tutoring group.