

SKILLS OVERVIEW

- Proficient in web development using HTML5, CSS3, and JavaScript.
- Knowledgeable in object-oriented development using Java.
- Have experience 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 used for the testing of various parts of the drone system in Python and Bash.
 - Created work instructions and proper documentation for the scripts to make the process easier for the operators.
 - Worked with established software engineers on projects and tasks, resulting in better programming habits and technique in terms of efficiency and quality of work.
- Production Operator** **Aeryon Labs Inc., Waterloo, ON** 07/2016 – 09/2016
- Assembled, repaired, and inspected quality of multiple parts of the drone system.
 - Responsible for meeting deadlines, getting tasks complete, and arriving on time.
 - 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 websites using HTML5, CSS3, and JavaScript.
 - Created a responsive personal portfolio 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.
 - Learned various automotive and engineering skills, along with the use of hand and stationary tools.
 - Designed, built, tested, and raced electric vehicles in preparation for various races in North America.
 - Represented the University of Waterloo EV racing booth at various events including the local Maker Expo.
 - Programmed the Electric Car Club website: bluevaleelectriccarclub.github.io
- Java Applets** 11/2015 – 02/2016
- Planned, programmed, and tested various applets using Java.
 - Knowledgeable about how an object-oriented language works.

VOLUNTEERING EXPERIENCE

- YMCA SAYD Program** **YMCA, Waterloo, ON** 11/2014 – 06/2017
- Setting up and encouraging the kids to participate in various activities and events.
 - Leadership skills displayed to ensure activities proceed safely and the way it was intended to be performed.
- Peer Tutor** **Bluevale C.I., Waterloo, ON** 09/2014 – 06/2017
- Found innovative ways to explain concepts to help the students conceptualize the topic in an easier way.
 - Responsibility and leadership skills used to ensure meetings are attended and focused on the topic being taught.

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.