

Omar Husain

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EDUCATION

BASc. Mechanical Engineering University of Ottawa

2015 - 2019 (Expected)

- GPA: 9.30 (out of 10.00)
- Awards: Dean's Honour List, Merit Scholarship, Altamira Scholarship

Bachelor of Arts (Honours) McGill University Montreal, QC

2011 - 2014

- Double Major: Political Science and Philosophy
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SKILLS

Programming: C/C++, Python, JAVA, Arduino, VBA, MATLAB

Machining: Vertical mill, lathe, spot welding, soldering, drill press

WORK EXPERIENCE

Programmer, Immigration Refugees and Citizenship Canada (IRCC) Corporate Affairs - ATIP

January 2018 - September 2018

- Employed part time as a programmer for IRCC.
- Tasks include developing and designing software solutions for automating client requests.
- Extensive use of the .net framework to create two webscrapers for the purposes of automation.
- The software is now in use and processing times have become shorter and more accurate.
- Reference: Lindsay Bright - lindsay.bright@cic.gc.ca.

IRCC - Case Processing Center - Ottawa

March 2015-September 2017

- Employed every summer since summer 2015.
 - Gained experience developing software tools to automate the archiving process.
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ACADEMIC PROJECTS

Simulation of Flow Over an Airfoil

April 2019

- Wrote a computer simulation in c++ of flow over an airplane wing.
- Animation of simulation can be found on my website http://omarhusain.co/2019/04/27/NACA_Airfoil.html.

Self-Leveling Glider

October 2017-January 2018

- Developed a self-leveling glider using an RC glider, a microcontroller, an IMU and 3 servos. Created a PID controller to ensure level flight.
- For more details on this project visit my website: <http://omarhusain.co/2017/11/01/SelfLevelingGlider.html>.

University of Ottawa Rocketry Team

February 2017-October 2017

- See my website for more details on this project: <http://omarhusain.co/2017/09/30/StateMachine.html>.
- Programmed a state machine for the ignition system to be able to ignite the fuel and control a servo valve for the oxidizer flow.

Drawing Robot

January 2016

- Designed and built a 2D plotter with software for making beautiful images.
 - For more details on this project visit my website: <http://omarhusain.co/2016/01/22/drawingRobot.html>.
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INTERESTS

- Flying: Pursuing a private pilot's license at Rockcliffe Flying Club, Ottawa. Completed ground school and have amassed 6 hours of flying so far.
- Sports: basketball, hockey - Played Jr. B Hockey, and Semi-professional in Europe.
- Drawing, poetry - Artwork can be found on my website <http://omarhusain.co/>.
- Electric Guitar - Have been taking lessons for the last year.