

# 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

**Software:** Solidworks, MATLAB, MS Office, Multisim, SFrame  
**Programming:** C, Python, JAVA, Arduino, VBA, HTML  
**Machining:** Vertical mill, lathe, spot welding, soldering, drill press

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## 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

### Self-Leveling Glider

October 2017-Present

- 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.

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## LANGUAGES

Fluent in English, Proficient in French (E-C-C on federal Government tests)