

### Summary of Qualifications

- Proficient in Java, C, C++ and various assembly languages.
- Enjoys working in and understanding low-level environments such as embedded systems.
- Familiar with building websites using HTML5, CSS3 and JavaScript.
- Adept with Linux and many common applications such as Git and GDB.

### Projects

- LAByrinth
  - Created a labyrinth game using a microcontroller board with C.
  - Utilised both serial and parallel I/O to communicate with peripherals.
- Breadboard Computer
  - Created a computer based on the 6502 processor on a breadboard using only ICs (integrated circuits).
  - Programmed a version of Pong using 6502 assembly.
- Java-Webchat
  - Developed RMI-based (Remote Method Invocation) communication protocol.
  - Implemented a user database which took precautions to secure user data using salted hashes.
  - Made use of object-oriented programming principles in order to create a cleaner codebase.

### Experience

- 2015 **IT Volunteer**, *Administration*, Newcomer Centre of Peel.
  - Created tool to backup user data using Windows Batch scripting.
  - Acted as system administrator.
  - Provided technical assistance to employees.
- 2007–2015 **Cadet Warrant Officer**, *Royal Canadian Air Cadets*, 700 David Hornell VC Squadron.
  - Planned and organised events as a member of a team.
  - Captained the drill team consisting of the squadron's most successful cadets.
  - Commanded over 120 peers during graduation parade of Drill and Ceremonial Instructors Course.

### Education

- 2015–2020 **Candidate for Bachelors of Software Engineering**, *University of Waterloo*, Waterloo, Ontario.  
*Cumulative GPA: 3.85*
- 2011–2015 **Ontario Secondary School Diploma**, *Martingrove Collegiate Institute*, Toronto, Ontario.  
*Academic Average: 95.0%*

### Awards and Scholarships

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|------|---|--|
| 2015 | Sandford Fleming Foundation Programming Competition Award     | Second Place                             |
| 2015 | Dean's Honours List at University of Waterloo                 | Term Average of 87% or Greater           |
| 2015 | President's Scholarship of Distinction                        | Admission Average of 95% or Greater      |
| 2014 | General Proficiency Award at Martingrove Collegiate Institute | Second Greatest Overall Academic Average |
| 2014 | University of Toronto High School Design Competition          | First Place                              |

### Interests and Hobbies

- Plays cello, double bass and piano.
- Avid unicyclist.
- Fanatical user of  $\text{\LaTeX}$ .
- Proud Vim user.