

# Abid Rahman

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Engineering Co-op Program  
University of Alberta

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## UNIVERSITY OF ALBERTA ACADEMIC STATUS

- |  |                       |
|--|-----------------------|
| • Computer Software Engineering, BSc, 2019 | (Cooperative Program) |
| • Cumulative Grade Point Average           | 3.6/4.0               |
| • Completed Academic Terms                 | 7/8                   |
| • Completed Co-op Work Terms               | 3/5                   |
| • Length of Next Work Term                 | 8 months              |

## EDUCATIONAL ACHIEVEMENTS

- |   |           |
|---|-----------|
| • University of Alberta First Class Standing  | 2015-2016 |
| • Jason Lang Scholarship                      | 2015-2016 |
| • University of Alberta Entrance Scholarship  | 2014      |
| • Advanced Placement Scholar with Distinction | 2014      |

## RELATED WORK EXPERIENCE

### Garmin

January 2017 – August 2017

Software Engineering Intern  
Cochrane, AB, Canada.

- Researched and developed an automated testing framework for product verification testing
- Developed parsing tools to perform data analysis and present summarized testing results
- Implemented fully automated testing scripts in different languages to validate product performance
- Utilized various agile development tools to plan, organize, and track daily tasks and issues
- Exposed to various project tasks such as measuring current consumption, modifying android and PC based applications, designing proper testing suites, and writing, modifying, and running device regression tests
- Collaborated with co-workers from different teams and regions to investigate potential bugs in large scale products under development

### Department of National Defence

May 2016 – August 2016

EMC Test Developer  
Aerospace Engineering Test Establishment  
Cold Lake, AB, Canada.

- Utilized graphical programming methods in the LabVIEW™ environment
- Created robust and thoroughly documented applications drivers for several data acquisition instruments
- Worked extensively with RF power meters, vector signal generators, RF amplifiers, and electric field monitors
- Integrated multiple instrument drivers to design and create an automated testing suite for EMC testing

## COMPUTER EXPERIENCE AND RECENT PROJECTS

- Proficient in C++, Java, Python, HTML, CSS, MATLAB, LUA, LabVIEW.
- Familiar with Windows, OS X, and Linux based operating systems
- Github: <https://github.com/abidrahman>
- **YEG Crime Heat Map** - <https://abidrahman.com/yegcrimeheatmap>
  - An interactive crime heat map of Edmonton, Alberta, Canada
  - Developed using d3.js utilizing open source data
- **Tap Master** - <https://itunes.apple.com/us/app/tap-master/id1286378150>
  - Simple 2d arcade game designed to test reaction time
  - Programmed in Swift for iOS and Java for Android
- **Pason Coding Competition – Tank Simulation** - <https://github.com/abidrahman/PasonCodingContest>
  - Created an AI with the ability to seek out and shoot at enemy tanks within a simulation
  - Programmed in Java and gained familiarity with Amazon Web Services
- **ArDDRuino** - <https://github.com/abidrahman/ArDDRuino>
  - Arduino based music game designed and created to test for reaction time in an exciting way
  - Programmed in C++ and developed on the Arduino using an LCD screen, joystick, and buttons

## VOLUNTEER EXPERIENCE

### VP External for the Computer Engineering Club

April 2016 – January 2017

- Organize, plan and run events to connect engineering students with industry as part of the Annual ECE WEEK
- Contact and maintain connections with industry representatives on behalf of Computer Engineering Club

### Orientation Leader and Volunteer for the University of Alberta Week of Welcome

May 2016 – September 2016

- Led a group of first year university students on a guided tour of campus
- Volunteered throughout Week of Welcome; running ticket sales, photo booths, etc.

### VP Communications for the First-Year Engineering Club

October 2014 – April 2015

- Communicated important events, announcements, and general information to students
- Organized and executed several on-campus events for first-year engineering students

## ADDITIONAL INFORMATION

- 1<sup>st</sup> Place at University of Alberta Engineering Competition 2015, Junior Design Category
- 1<sup>st</sup> Place at UofA 2016 Pason Coding Competition
- Captain of Ultimate Frisbee team
  - Recruited and organized a team for the Edmonton Ultimate Players Association
- Class 5 (GDL) driver's license with clean driver's abstract
- Completed CSTS training course