

# JORDAN HEINRICHS

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## Objective

To use my education, skills, and passion in a full time computer or software engineering position where I can contribute to the success of the organization.

## Education

### University of Calgary

**2011-Present**

- Bachelor of Science, Electrical Engineering with a Computer Engineering Minor
- Expected graduation: April 2016
- GPA: 3.9/4.0 cumulative

## Skills

- Competent and experienced programming using C++, C, and Perl.
- Used Matlab, D, Python, and Java.
- Experienced with embedded system and application software development.
- Strong problem solving and troubleshooting skills.
- Used Agile development practices including TDD and Domain Driven Design.
- Reliable, dependable, and personable.
- Hard-working, motivated, and a team-player.
- Enjoy challenges, learning, and problem solving.
- Talented and passionate for electrical and software engineering fields.

## Work Experience

### Lockheed Martin CDL Systems Ltd., Calgary

**May 2014 - Aug 2015**

*Software Developer*

- Worked on software to interface between two protocols for UAV flight control.
- Used Test Driven Development and other Agile methodologies.
- Gained experience with C++ with QT, Perl, and Git.
- Learned and implemented Domain Driven Design.
- Developed for Windows, Linux, and Linux on ARM.

### NSERC Research, University of Calgary

**May 2013 - Aug 2013**

*Summer Research Student*

- Developed and executed tests to determine accuracy of a hexacopter dropping sensor nodes.
- Troubleshooted and solved problems with hexacopter.

- Created a program to capture position of hexacopter using video tracking with C++ OpenCV.
- Analysis of data using Matlab and C++.
- Presented results and data in meetings and reports.

**Whole Foods Market, Penticton      Sept 2008 - Aug 2011, May - Aug 2012**  
*Stocker, Cashier*

- Responsible for making sure all extra stock put on the shelf when possible.
- Received orders and created sales displays.
- Flexible, filled many roles. Cashier when needed.
- Developed communication skills for maintaining customer satisfaction.
- Trained new employees.

## Extracurricular Activities

**University of Calgary Solar Car Electrical Team      Sept 2013 - Present**

- Created telemetry protocol to communicate over XBee radios.
- Used C++ with QT framework.
- Worked on embedded system for driver controls.
- Interfaced with multiple systems over CAN, UART, and SPI.
- Experienced with prototyping circuits and soldering.
- Was software team lead, mentored newer members.
- Team projects are located here:

– [www.github.com/UCSolarCarTeam](http://www.github.com/UCSolarCarTeam)

**Many Mini Bots      Sept 2013 - May 2014**

- A group dedicated for producing and interfacing many small bots.
- Involved with building a tricopter.
- Creating documentation for creating more multicopters.

**Schulich Aerodesign Team      Sept 2011 - Aug 2013**

- Received hands on experience designing and assembling a radio controlled aircraft.
- Built two, greater than 2 meter wingspan RC plans for SAE Aerodesign Heavy Lift Competition.
- Dealt with very limited resources and hard design constraints throughout the project.
- Was a key member of the build team.

## Hobbies

- Back-country hiking and camping.
- Long distance running.
- Video games.