

# JORDAN HEINRICHS

- Phone: (403) 399-6280 • mail@jordanheinrichs.com
  - www.JordanHeinrichs.com • www.github.com/JordanHeinrichs
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## 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 systems 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 the hexacopter
- Created a program to capture position of the 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