

# Joel Gallant

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Competitive, detail oriented, self taught and a candid software developer - with specialization in making the complex simple. From computer vision to user facing interfaces, and anything in between, I take the direct route with none of the baggage. Because quality matters.

## Skills

### Software Development

Web backend & frontend (node, express, html5/js), embedded (C, C++), build systems (cmake, makefiles), jvm languages (java, scala), image processing (opencv, dlib, numpy), data analysis (python, matplotlib), vector math (neon, sse)

### Software Tools

Version control (git), issue tracking (github, bitbucket, jira), continuous integration & unit tests (semaphoreci, travis, gtest), IDEs (netbeans, eclipse), comfortable with shell & unix tools (bash, zsh, vim, tmux, ssh), fluent with excel

## Experience

### Trace Intelligent Systems & Draganfly

*Computer Vision Technologist - 2015-Present*

- Developing embedded Computer Vision tracking software
- Research in novel techniques and advanced topics in state-of-the-art
- Optimization on ARM and x86 embedded platforms
- End-to-end development from user software to low level image operation optimizations

### FIRST Robotics

*FIRST Senior Mentor - 2014-2015*

- Team communication and group workshops
- Event planning for Western Canada regional competition
- Team mentorship in engineering topics
- Curriculum development for engineering and programming
- Recruiting and supporting FRC, FTC and FLL teams in Alberta

## Education

### Bishop Carroll High School

*High School Diploma, 2014*

## Interests

### FOSS, Free Software, Open Source, Linux

I have always been passionate about the moral and practical missions of free software

### Electronics & Robotics

I have worked with a good amount of electronics and competed in 5 years of robotics competitions

## Find me



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