Joel Gallant

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Driven, 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 work hard and fast without sacrificing quality.

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

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