Joel Gallant

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Straightforward, detail oriented, goal focused, fast to adapt and ultra-competitive. I'm a software developer that knows how to work with engineers. I can effectively see the big picture, and put that into real functional technology. I like working in C++ for embedded projects, Python for scripting, and Java for most other things. I'm good at working from the ground up with any technology.

Skills

Software Development

Web backend & frontend (node, express, static), embedded (C, C++), build systems (cmake, make, npm), jvm languages (java, scala), image processing (opencv, numpy), data analysis (python), vector optimizations (neon, sse)

Software Tools

Version control (git), issues (github, bitbucket, jira), continuous integration & unit tests (semaphore, travis, gtest), IDEs (netbeans, eclipse), comfortable with shell (bash, zsh, vim, tmux, ssh), fluent in excel

Experience

Trace Live Networks   *Computer Vision Technologist - Calgary, AB - 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 operations

FIRST Robotics   *FIRST Senior Mentor - Calgary, AB - 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
For years I have been passionate about the moral and practical missions of free software.

Hardware
I have worked on many desktop computers and have a good understanding of most basic electronics and computer hardware.