

Joel Gallant

Cell: 403-826-5534 Email: joel@joelgallant.me

Driven, detail oriented, self taught and a candid software developer - with specialization in making the complex simple. I work hard and fast without sacrificing quality.

Skills	<u>Advanced</u> <ul style="list-style-type: none">• Java 6/7• C++11• CMake & Make	<u>Intermediate</u> <ul style="list-style-type: none">• Node.js• Python• OpenCV & dlib• HTML5 & Javascript	<u>Familiar</u> <ul style="list-style-type: none">• Ruby on Rails• Scala• Rust• CSS / Sass
	Tools <ul style="list-style-type: none">• Version Control (git)• Github, Bitbucket, etc.• vim / tmux / zsh	<ul style="list-style-type: none">• Continuous Integration & Deployment• Unit Testing (gtest)• IDE Tools (netbeans, eclipse)	<ul style="list-style-type: none">• SSH and common unix tools• Windows 7/8/10• Solidworks
Experience	<u>Renoworks</u> <div>Software Developer (Jan 2017 - Present)</div> <p>Developing software for frontend and backend portions of Renoworks' core products. Improving rendering engine, researching auto-masking and developing novel computer vision techniques.</p>		
	<u>Draganfly UAV & Trace</u> <div>Computer Vision Technologist (Apr 2015 - Dec 2016)</div> <p>Responsible for developing, testing and integrating embedded Linux computer vision tracking software. Working with the state-of-the art short term general object trackers, high speed detection, machine learning classification and gesture control. Advancing techniques and integrating them into a low power system to control cameras and UAVs.</p> <p>Tracking software developed controls an autonomous UAV, target assists in public safety situations, and is adaptable to any type of target.</p>		
	<u>FIRST Robotics</u> <div>FIRST Senior Mentor - 2014-2015</div> <p>Supporting, recruiting and mentoring students & coaches for FIRST Robotics teams in Alberta.</p> <p>My work had an impact on over 750 students across Alberta, giving them an opportunity to work hands-on with technology and engineering.</p>		
	Free Software, Open Source, Linux <p>I have always been passionate about the moral and practical missions of free software</p> Electronics & Robotics <p>I have worked with a good amount of electronics and competed in 5 years of robotics competitions</p> Active Living <p>I'm passionate about staying healthy through hiking, basketball, weightlifting and cycling</p>		
Interests			

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Education

Bishop Carroll Self-Directed High School

High School Diploma, 2014

Achievements & Projects

Trace Visual Intelligence

I joined the software team for Trace to create a fast target tracker onboard UAVs. My proprietary work outperformed the best available options in accuracy and performance.

FIRST Robotics

I was a founding student member and continue to mentor with Team 4334. In 2014, I led the team to a World Championship division semi-final, and the Chairman's award.

- Chairman's award for broad impact in and out of STEM
- Over 15 official awards within 6 years of competing
- World division winner, the highest stage of competition

ATALibj

In high school, I collaborated with members from other teams to develop a high quality Java library for use in FRC robots, generalizing many of the common approaches and problems faced.

Gordian Scripting Language

In my grade 11 year, I wrote an interpreter for a python-like scripting language that was run onboard an FRC robot. It used no external libraries and had a prototypical object model.

High School Robotics Curriculum

I was honored in my grade 11 and 12 years to write curriculum for online high school courses that were taken by over 50 students.

Find me



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