

Galen Cochrane

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Education

- **Bachelor of Science in Computer Science**
Idaho State University, Pocatello, Idaho
Expected Graduation: May 2018
- **Bachelor of Arts in Physics**
Idaho State University, Pocatello, Idaho
Expected Graduation: May 2018

Applicable Work Experience:

- **Computer Graphics Research Assistant**, Idaho State University.
November 2015 - Present.
Research covers topics including lidar data analysis and visualization using ICP and SLAM, real-time applications for virtual reality using the HTC Vive, GPGPU programming, experimental rendering techniques and low level networking. C and C++ are used frequently.
- **Lidar Research Assistant and Technician**, Idaho State University.
2017 Summer Position.
Assembled embedded systems and developed software to be used onboard a UAV as part of an ongoing terrain-mapping project. C++, Python, and the ROS framework were used. Solutions implementing SLAM algorithms (such as LOAM) were pursued.
- **Programming Intern**, RISE Complex of Pocatello, Idaho.
January 2015 - November 2016.
Experience includes writing Monte Carlo simulation software for nuclear materials research in C and Python, interfacing with a parallel computing cluster, and developing equipment control systems as part of a team of three.

Relevant Proficiencies:

- Experienced with C, C++, C#, Python, Linux, CMake, Git, OpenGL, LiDAR, ROS, SLAM
- Familiar with OpenMPI, OpenCL, Matlab, SQL, OpenVR, Vulkan, Javascript, HTML/CSS
- Fluent in English and Spanish.
- Well developed writing skills. Has presented undergraduate research at three statewide conferences.

Leadership Accomplishments and Volunteer Work:

- Designed coursework and taught high school students basic programming skills over the course of several months as a mentor in Google's 2016-2017 IgniteCS program.
- Served multiple terms as an officer of the Math and Computer Science club at Idaho State University.
- Led teaching sessions in individual and group settings as a Spanish-speaking volunteer in Perú, an Eagle Scout, a calculus tutor, and a ski instructor at multiple resorts.