

Professional Summary

A National Merit Scholar Computer Engineering and Computer Science student at USC with over four years of programming experience and nearly a year of experience working in a professional setting including working on internal IT applications and embedded set top box applications. A two year member of the USC Autonomous Underwater Vehicle team competing in the AUVSI RoboSub event.

Education

- **University of Southern California**—Los Angeles, CA
Majoring in Computer Engineering and Computer Science
 - University GPA: 3.5, Major GPA: 3.9
 - Presidential Scholar
 - Projected Graduation Date: May, 2014

Technical Summary

- **Languages:** C, C++, Java, Go, Python, Verilog, \LaTeX , Motorola 68000 Assembly
- **Libraries/Frameworks:** OpenGL, ROS (Robot Operating System), OpenCV, Berkeley Sockets
- **Systems/Tools:** Linux and Unix variants (Debian, Ubuntu, Solaris), OSX, Windows 2000/XP/Vista/7, SVN, Git, Mercurial, MongoDB, MySQL, Eclipse, Multithreaded Environments (Using Agents)

Professional Experience

- **DIRECTV**—El Segundo, CA
Software Engineering Intern May 2012–August 2012
 - Embedded systems work with set top box UI in Java
 - Created tool to increase productivity when working with set top box assets
- **Nelson Auto Group**—Tulsa, OK
Information Technology Intern May 2011–August 2011, December 2011–January 2012
 - Created a system to effectively and efficiently keep copies of all physical media needed for the company's computer and technical systems.
 - Created a system to allow managers to easily access recorded calls through a web interface using PHP to access Asterisk servers.

Projects Outside of School

- **Projects Created/Forked**
 - *Boop*: Lightweight Go server for running commands in response HTTP actions. Very good for throwing together quick solutions when needed. <https://github.com/gerow/boop>
 - *gnome-shell-google-calendar*: Fork of script to allow Google Calendar integration into GNOME 3. Added ability to use within GNOME 3 under Ubuntu. <https://github.com/gerow/gnome-shell-google-calendar>
 - *btcreg*: A service for aliasing bitcoin addresses against email addresses. Mainly created in order to play around with creating database driven web applications using Go and MongoDB. <https://github.com/gerow/btcreg>
 - *This Resume*: Yes, even this resume is written in \LaTeX . <https://github.com/gerow/resume>
- **Projects Done With Others**
 - *LittleNote*: An iPhone app for sending notes to your significant other. Worked on backend side implemented as a Ruby on Rails application. <https://github.com/kcbarry/LittleNoteWeb>
- **Projects Contributed To**
 - *Goose*: Database migration tool for Go. Added sqlite3 support. Currently working on support for applications that wish to target multiple database types. <https://bitbucket.org/liamstask/goose>

Club Experience

- **USC Autonomous Underwater Vehicle Team**—Los Angeles, CA
Member of Software Team September 2010–May 2012
 - Wrote C++ code for robot running within the ROS environment under Ubuntu.
 - Gained experience working with vision processing using OpenCV.