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Education

California Polytechnic University, San Luis Obispo, CA
B.S. Computer Engineering, June 2011

Relevant Coursework

Systems Programming **Individual Software Engineering** (CPE 305, Staley)
Digital Design **Artificial Intelligence**

Skills

Fluent in ROS, C, C++, Java, Python and Perl
Experience with Bash, HTML, Javascript, Tex and Postscript
Programming experience on Windows, Mac OS X, Linux and embedded systems

Work Experience

Nebula Inc. **October 2013 – Present**

Systems Automation – Developing and extending cloud test and automation software.

Willow Garage **July 2011 – September 2013**

Robot Systems Administrator – Software maintenance and testing, release management and systems administration for the PR2. On-site support at conferences, demos and parties. Various tools for wireless networking.

Createspace/Zero Mass Engineering **Sep. 2007 – June 2011**

Systems Administrator – build, deploy and maintain Red Hat servers. Set up and maintain office infrastructure, phone system, networks and production servers.

JDSU **July 2007 – Sep. 2007**

Programming Internship – developed design tools for thin film filter design, including creation of new filter design generation algorithm. Language: Matlab.

Projects

Dagny: An autonomous mobile robot built from scratch, including electronic system design, sensor and controller selection, and firmware. Using ROS.

ROS builds for ARM: Running a build farm to do ROS builds for ARM, in support of Dagny and for the greater ROS community. Builds are public and have an estimated 50-100 users. http://www.ros.org/wiki/groovy/Installation/UbuntuARM

Xbee shell (xbsh): A configuration tool for Digi Xbee radios, to make them easier to use and interact with. Written in C++, using readline for input, history and custom tab-completion. https://github.com/trainman419/xbee

Publications

Networking for ROS Users: Talk presented at ROSCon 2013