# Kelvin Silva

*Computer Systems Engineer*

## CONTACT

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## EDUCATION

**Bachelor of Science. Computer Engineering**      **2015-2018**
*University of California Santa Cruz*

GPA: 3.53 / 4.00
- Specializing in Systems Programming, Embedded Systems (Microcontroller, FPGA, SoC),
- Relevant Courses: C Systems Programming, Microcontroller Systems Design, Logic Design
- Tau Beta Pi Engineering Honor Society

## WORK EXPERIENCE

**Software Engineering Intern (Full-Time)**      **7/15/17 - 9/9/17**
*HackLabs Pty Ltd / Sydney, Australia*

- Continued development on an open source project: penetration testing report generation tool SERPICO to fit company's report template.
- Improved flexibility of report generation by implementing hierarchical pattern to template data model, software debugging, implemented API endpoints for retrieval and modification of data.
- Ruby with Sinatra, DataMapper ORM, HAML, XSLT, Docker, PHP, MySQL, and Amazon AWS.

## PROJECTS

**Indoor Autonomous Navigation System**      **1/1/18 - 6/15/18**
*University of California Santa Cruz*

- Lead developer for an autonomous robotic car using Robot Operating System (ROS).
- Integration of Simultaneous Localization and Mapping (SLAM) algorithm, ROS navigation software, with LIDAR and other hardware.
- Testing and simulation in Gazebo
- Python / C++ / Robot Operating System (ROS) / Gazebo / Raspberry PI

**Slug assistant Amazon Alexa Skill**      **3/3/18**
*Association Computing Machinery Hackathon UCSC*

- Built an Amazon Alexa Skill to assist UC Santa Cruz students by providing campus and city transit information, as well as dining commons area opening hours.
- First Place Winner of Hackathon: http://dvp.st/2oQdNvp
- Amazon AWS Lambda / Python / Google API

## TECHNICAL SKILLS

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| *Programming:* | C (Intermediate) / C++ (Intermediate) / C++ 11 / Java (Novice) |
| | Python (Novice) / Ruby (Novice) / x86 Assembly (Novice) |
| | Git Version Control (Intermediate) |
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| *Embedded:* | System Verilog (Novice) / Xilinx ISE Suite (Intermediate) |
| | PsoC Creator 4.0 (Intermediate) / System On Chip |
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| *Windows:* | Windows 32 API (Win 32) (Intermediate) / Winsock (Intermediate) |
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| *Nix:* | Ubuntu / Raspbian |
| | FreeBSD Kernel |
| | File Systems in User Space (FUSE) in FreeBSD |

## AWARDS

- Eagle Scout Award, Boy Scouts of America, Troop 126, Arcadia, CA
- Alpha Phi Omega, Alpha Gamma Nu Chapter, National Service Fraternity
- Association Computing Machinery Hackathon UCSC First Place Prize