Sean S. Wallace

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Education

California Polytechnic State University, San Luis Obispo	Class Level: Sophomore
Bachelor of Science in **Computer Engineering**, June 2019	Overall GPA: **3.17**

Emphasis in **Software Engineering**

Related Coursework: Computer Programming Series, Digital Design, Computer Design & Assembly Language Programming, Systems Programming (currently enrolled), Electrical Circuit Analysis (I, II), Calculus Series

Skills

Programming Languages: Proficient knowledge of C, Java, and Python
Development Tools: Familiar with git, vim, Eclipse, Bash, UNIX, and ROS
Hardware Development: Exposure to VHDL, Xilinx, Eagle
Web Development: Basic knowledge of HTML, CSS, and AngularJS
Operating Systems: Comfortable using Ubuntu, OSX, Windows

Project Highlights

Autonomous Golf Cart
Ongoing project with the Cal Poly Robotics Club   September 2016 – Present
Design software with the ROS framework, write firmware for a board using an STM32 chip
- Python, C, ROS

RAT MCU
Implementation of a basic microprocessor design in VHDL   March 2016
Targets the BASYS 3 FPGA using the Vivado Design Suite
- VHDL, Digital Design

Chess AI
Rudimentary chess AI that plays a weaker version of itself   January 2016
Designed using a mailbox board representation and a branch traversal algorithm
- Java, Object-oriented programming

Ninja Fighter RPG
Simple top-down action-based RPG   September 2015
Created in the Greenfoot IDE
- Java, Object-oriented programming, game design

Extracurricular Activities

Cal Poly Robotics	San Luis Obispo, CA
Software Team Member	September 2016 – Present

- Wrote collision detection software in python using the ROS framework
- Implemented an RC control system for the autonomous golf cart project

ACM-ICPC International Collegiate Programming Contest	San Luis Obispo, CA
Annual Contestant	December 2016 – Present

- Member of Cal Poly Team 4

Mililani FIRST Robotics	Mililani, HI
Assistant Project Manager	August 2014 – May 2015

- C++, technical documentation
- Scrum project management methodology

Honors

- Hawaii Rotary Club Scholarship
- Dean's Honor's List (Fall 2015, Fall 2016)