

Erik Matthew Phillips

1 Grand Avenue, 203 Santa Lucia | San Luis Obispo, CA 93410
(970) 319-6538 | ephil07@calpoly.edu | linkedin.com/in/ephil07

EDUCATION

California Polytechnic State University (Cal Poly) – San Luis Obispo, California Expected Graduation 2018
Bachelor of Science Degree in **Computer Science** | Class Level: Junior | GPA: 3.47

SKILLS

Programming Languages: C, Java, Python, JavaScript, HTML, CSS, AngularJS, Assembly
Applications and Hardware: Eclipse, UNIX Machines, Minitab, AutoCAD, Microsoft Word, Excel, PowerPoint
Strengths/Quest Results: Achiever, Positivity, Relator, Learner, and Responsibility

HIGHLIGHTED PROJECTS

C PROJECTS

- *Tar* – Implemented a Tape Archive program to build and restore files and directories to/from a single tape file. Project included designing file organization standards and compression of finalized output files.
- *Calculon* – Built a testing program to evaluate results from programs based on the provided expected outcome.
- *Makefile Utility* – Created an implementation of the standard Makefile utility to compile and run code executables.
- *LinearSim* – Applied a Computational Fluid Dynamics problem to creating processes in the UNIX environment. Used cells, pipes, forks, and execs to complete the computation in a timely manner.

JAVA PROJECTS

- *Unit Testing Program* – Implemented a testing program based off of the standard JUnit tester for Java programs. Expanded on necessary methods for testing, while creating a user friendly testing environment.
- *Maze Game* – Designed and created a graphical game, taking user input to navigate a maze. Implemented various classes of artificially intelligent players and monsters within the game.

C/C++ PROJECT – Automated Arduino Robot

- Designed and built an Arduino robot to follow an outlined maze using IR sensors, LED lights, speakers.
- Wired, configured, and operated the robot wirelessly through Bluetooth technology.
- Controlled power consumption and motor timing while maintaining computational efficiency.

OTHER VARIOUS PROJECTS

- *JavaScript Projects* – Completed all readings and projects in the *Eloquent JavaScript* book by Marijn Haverbeke.
- *AngularJS Projects* – Completed the online AngularJS 1.2 course from CodeSchool.com, designed a Website.
- *Assembly Project* – Reading and writing character I/O from the keyboard and monitor using the LC-3 processor.
- *Python Project* – Used ray casting to create an image by projecting spheres based on input from text files.

EXPERIENCE

California Polytechnic State University (Cal Poly) – San Luis Obispo, California

Training and Development Intern, Desk Manager 2016

- Design, create, and coordinate 60+ hours of Resident Advisor Training for University Housing.
- Manage a staff of 8 and the University Housing Summer Front Desk providing services to residents.

Resident Advisor 2015-Present

- Support up to 90 residents in all areas of daily life by organizing events and resolving conflicts, while ensuring that the community remains safe by having regular on-call shifts and community interactions.

Instructional Student Assistant 2016

- Work closely with the professor of the Introduction to Computing II (CPE 102) class of 35 students to design and grade class problem sets for 10+ hours per week.

Hall Council President 2014-2015

- Conduct weekly meetings of 15 elected students as a liaison between residents and campus housing.
- Represent the 750 residents within the community and work as a team in planning inclusive programs.

Riverside Grill and Pyramid Bistro – Basalt and Aspen, Colorado

Waiter and Caterer 2013-2015

- Independently manage a section of over 15 tables, taking and delivering alcohol and food orders during fast-paced, stressful circumstances. Provide high-end catering services for large special events.