

# Paul Legler

COMPUTER SCIENCE · ELECTRICAL ENGINEERING

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## Education

### University of California Berkeley

Aug. 2014 - Exp. May. 2018

B.E. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

- GPA: 3.39

### Loyola High School

Aug. 2010 - May. 2014

HIGH SCHOOL DIPLOMA

- GPA: 4.7, SAT: 2390
- National Merit Scholar, Academic Department Award in Computer Science, Highest Honors at Graduation

## Work Experience

### Northrop Grumman

Summer 2017

SOFTWARE ENGINEER INTERN

- Worked on the Ground Hardware System Engineering Team for AMP 2 (Advanced Mission Programs 2)
- Developed tools using Visual Basic and Python to help estimate key channel parameter values as well as rewrite the bit-framing method of an encoder for wideband data

### Northrop Grumman

Summer 2016

SOFTWARE ENGINEER INTERN

- Worked on the Payload Channel System Engineering Team for AMP (Advanced Missions Program)
- Developed tools using Visual Basic in Excel to streamline and standardize verification process of payload level requirements that will save the team 250+ hours per payload

### Northrop Grumman

Summer 2015

SOFTWARE ENGINEER INTERN

- Worked on the Payload System Engineering Team for EPS (Extremely High Frequency Polar System)
- Developed tools using Visual Basic in Access and worked on simulations in MATLAB to help predict possible problems encountered in space.

### Northrop Grumman

Summer 2014

HIGH SCHOOL SOFTWARE ENGINEER INTERN

- Worked on the Payload System Engineering Team for Milstar (Military Strategic and Tactical Relay)
- Redesigned the internal program site using HTML and assisted in the creation of sell off documentation

## Extracurricular Activity

### Undergraduate Student Instructor (Teaching Assistant)

Aug. 2017 - December 2017

COMPUTER SECURITY (CS 161)

- Host sections and office hours every week, as well as contribute to development of homework, test questions, and class projects
- Class covers following topics: security principals, secure coding practices, web security, network security, and cryptography
- 20 hours a week, 60 students in sections, 400+ students in class

### President of UC Berkeley Coaching Corps

Aug. 2014 - Present

COACHING CORPS

- President (2016 on): responsible for recruitment of new coaches, support of over 40 current coaches and of fellow Coaching Corps leaders, and communication with Coaching Corps regional corporate staff
- Coach (2014 on): provide skill and character development to kids of all ages at underprivileged schools in the Bay Area

### AFX Tech Project Lead

Fall 2017, Spring 2018

AFX DANCE

- Project lead on a team to develop a history website for AFX dance, a student hip-hop dance organization with over 800 dancers per semester
- Mainly focused on the backend, which was done in Ruby on Rails to allow users to maintain tables of dancers, directors, board members, and the relationships between these groups.

### Reader and Lab Assistant

Spring 2017, Spring 2016

CS 70, CS 161, EE16A

- Spring 2017: Computer Security (CS 161) (8 hours a week), Spring 2016: Discrete Mathematics and Probability Theory (CS 70) (6 hours a week): Helped grading homework assignments, as well as attended homework parties to help students
- Spring 2016: Designing Information Devices and Systems I (EE 16A) (5 hours a week) Helped students understand labs and ensured safety in the lab (5 hours a week)

## Skills

- **Miscellaneous:** Microsoft Office (Excel, Word, PowerPoint), 4 years of High School Spanish, including AP Level

Python:	● ● ● ● ●	Java:	● ● ● ● ○	C:	● ● ● ● ○	Go:	● ● ● ● ○
Visual Basic:	● ● ● ● ○	SQL:	● ● ● ● ○	HTML:	● ● ● ○ ○	LaTeX:	● ● ● ○ ○