

Alan Zhang

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EDUCATION

University of California, Berkeley

B.A. in Computer Science

Expected Graduation: May 2019

GPA: 3.2

Courses: Machine Learning (ongoing), Computer Networking (ongoing), Computer Algorithms, Data Structures, Machine Architecture, Advanced Linear Algebra, Discrete Math & Probability

EXPERIENCE

Berkeley Emergent Space Tensegrities Lab / Undergraduate Researcher

May 2017 - Present

"Researching a new design of space robots based off tensegrity structures."

- Lead software engineering and created a flexible and stable API for future development.
- Built and maintained an extensive software stack for robot communication and operation.
- Designed user interfaces for robot testing and demonstration of punctuated rolling.
- Increased communication frequency 5-fold (and counting).

Pioneers in Engineering (PiE) / Director of Programs

June 2017 - Present

"Leading a student-run engineering outreach non-profit that develops skills through a hands-on realistic engineering experience."

- Managed a team to design, create, and build a game and modular field for a robotics competition hosted on UC Berkeley campus for under-served Bay Area high schools.
- Studied and understood the needs of the 20+ schools and teachers, and 300+ students that PiE serves in order to provide holistic and engaging STEM programs.
- Cemented an annual Fall Competition to increase continuous engagement with our community, and bolstered the creation of year-round-workshops.
- Other/Former roles: Project Manager (June 2016-Present), Event Coordinator (June 2016-Present), Game Designer (August 2015-Present), Game Referee (February 2016-Present)

Mango Materials / Laboratory Intern

June 2013 - August 2016

"Creating a renewable and sustainable plastic-substitute with methanotrophic bacteria."

- Performed original biology experiments to optimize bacteria growth in fermentation reactors.

PROJECTS

Laminar / Cal Hacks 3.0

October 2016

"Connecting writers to inspire each other and overcome writer's block."

- Created a web application where user submitted snippets of text would be shared to others.
- Utilized HTML, CSS, Django, Microsoft Cognitive Services API.

SKILLS

Languages Python, Java, C/C++ **Web** HTML/CSS

Misc Arduino, Git, Adobe Suite, SOLIDWORKS, Maker Spaces and Machine Shops, \LaTeX

Activities Cal Ultimate, Running, Mentoring for Computer Science Mentors

Interests STEM Education and Outreach, Space Exploration, Tech Devices