

# ALEXIS WEI

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## EXPERIENCE

### **Design Lead** | Convergent @ Berkeley Sept 2019 - present

- Leading a cohort of 10 members to create and develop a start-up idea, producing Minimal Viable Product ready for CV pitch within 3 months

### **Undergraduate Researcher** | BEST Lab Berkeley Aug 2019 - present

- Building prototype spherical tensegrity robots for space exploration and disaster relief in collaboration with NASA and Squishy Robotics
- Performing drop test experiments to further study and characterize the robots' collision and impact behavior
- Cross-validating with ANSYS Mechanical ADPL simulations

### **Mechanical Engineer Intern** | Arris Composites May 2019 - present

- Developed and programmed optimal pathway for FANUC robot movement within manufacturing system for accuracy and efficiency
- Performed system testing with integration to HMI & PLC communications
- Designed and prototyped dispenser suitable for fragile material handling

### **Braking Systems Engineer** | Berkeley Hyperloop Feb 2019 - present

- Designed a pneumatic actuation system with friction braking including implementations for redundancy and modularity
- Worked with Solidworks and ANSYS FEA for concept confirmation

### **Engineering Lead** | Trubotics Sept 2016 - Jun 2018

- Developed 5+ robots, capable of obstacle maneuvers and self-carry
- Produced a Design Notebook, detailing ideation, 2D & 3D drawings
- Tested and debugged system for sensor optimization

## JUST FOR FUN

### **TechCrunch Disrupt SF Hackathon** | Hacker Sept 2019

### **Google Tech Challenge** | Team Lead April 2019

- Competed in energetic coding challenges and brain teasers against students from UC Berkeley and Stanford

### **Deloitte Startup Case Competition** | Idea Generator April 2019

- Was chosen as 1 out of 5 ideas out of hundreds to lead a team
- Created Suitable, a convenient professional Wear Rental Service

### **Berkeley LAUNCHATHON** | 1st Place March 2019

- Created promotional graphics for social media A/B testing, and redesigned website landing page for Buildblock over a 2 day competition

### **Calhacks 5.0** | QWORK Nov 2018

- Developed a productivity web app using HTML, Python & Uipath

### **BOSE Sound AR Design Challenge** | Participant Oct 2018

- Utilized audio AR technology to create a virtual postcard system

## EDUCATION

### **Mechanical Engineering & Computer Science** | UC Berkeley Bachelor of Science '22

#### **Relevant Course Work:**

Designing for the Human Body  
Web Design and Development  
Environmental Design  
Product Development  
Introduction to Construction  
Manufacturing & Tolerancing  
Electronics for IoT  
Thermodynamics  
Discrete Mathematics and Probability

#### **Programming**

Java, Python, C++  
HTML, CSS,  
Javascript  
MATLAB

#### **Softwares**

Solidworks, Fusion 360  
Figma, Affinity Designer  
Adobe XD, Illustrator,  
Photoshop, Lightroom  
AUTOCAD

## SIDE GIGS

### **Hacker** | Various Hackathons github.com/alexis-wei

### **Sticker Shop Owner** | RedBubble redbubble.com/people/alexiswei

### **Content Creator** | Medium medium.com/@alexis\_wei

### **Design Creative** | Innovative Design

#### **More Interests**

Robotics, Product Innovation, Graphic Design, 3D Printing, UX/UI, Artificial Intelligence, Interior Design, Fashion Design, Hiking, Swimming, Dance

## WHO AM I?

