

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

- Prototyping 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 Oct 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 Coursework:

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

WHO AM I?

