ALEXIS WEI

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EXPERIENCE

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

UX Design Intern | Buildblock   Mar 2019 - Jun 2019
- Redesigned website Landing Page with pre-registration system
- Guided the Korean startup's entry into the United States
- Created company graphics for social media promotion & A/B testing

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
- Progressed onto VEX Provincial competition as top 15% of all teams

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

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?

- 30% Skill
- 15% Creativity
- 10% Positivity
- 20% Energy
- 25% Team Player