



# ALEXIS WEI

THE QUIRK TO YOUR DESIGN

alexis\_wei@berkeley.edu

510-990-1271

Berkeley, CA // Toronto

  /alexis-wei

## EXPERIENCE

### • BRAKING SYSTEMS ENGINEER

BERKELEY HYPERLOOP | Feb 2019 - present

- Designed a pneumatic air pressure release system with Solidworks
- Braking with friction and eddy current magnetism to stop a 100kg vehicle moving at 250mph in under 400m

### • UX DESIGN INTERN

BUILDBLOCK | March 2019 - present

- Redesigned website Landing Page with pre-registration system
- Guided the Korean startup's entry into the United States through social media advertisements and branding
- Created company graphics and content for promotion & A/B testing

### • LEAD MECHANICAL ENGINEER

TRUBOTICS | Sept 2016 - June 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

### • ENGINEERING RESEARCH INTERN

RYERSON UNIVERSITY | July 2017

- Researched condition changes of marine clay supporting Waba Dam
- Conducted hands-on consolidation soil testing with oedometers
- Digitized data into graphical representations through SPSS, creating E-log P curves for analyzation

### • PRESIDENT

MARKHAM WARD 6 YOUTH COUNCIL | Nov 2014 - June 2018

- Founding member; lead 16 executive members and 100+ volunteers
- Organized bi-monthly outreach events & volunteer opportunities
- Created sponsorship packages, partnering with 20+ businesses

## PROJECTS

### • QWORK

CALHACKS 5.0 | Nov 2018

- Developed a productivity web app using HTML, Python & Uipath allowing workspace access in second where functionalities are stored

### • SENDING A BOSECARD

BOSE SOUND AR DESIGN CHALLENGE | Oct 2018

- Utilized audio augmented reality technology to create a virtual postcard system to keep loved ones close with voice and GPS location

## EDUCATION

### UC BERKELEY

MECHANICAL ENGINEERING

Bachelor of Science '22

Minor in Architecture &

Electronic Intelligent Systems

### COURSEWORK:

Web Design & Development

Manufacturing & Tolerancing

Electricity & Magnetism

Multivariable Calculus

## SKILLS

### SOFTWARES:

AUTOCAD

Solidworks, Fusion 360

Figma, Affinity Designer

Adobe Photoshop, Lightroom

### PROGRAMMING

#### LANGUAGES:

MATLAB

Java, Python

HTML, CSS, Javascript

#### LANGUAGES:

English, Mandarin, French

## INTERESTS

Robotics, Product Innovation,

Graphic Design, 3D Printing,

Artificial Intelligence, UX/UI,

Hiking, Swimming, Dance

## WHO AM I?

