

Alex MechE

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EDUCATION

University of California, Berkeley
Bachelor of Science in Mechanical Engineering

May 2021
GPA: __/4.0

Relevant Coursework: Feedback Control Systems, Aerodynamics, Biomechanics, Heat Transfer, Electronics for IOT, 3D Modeling, Statics & Strength of Material, Manufacturing & Tolerancing

SKILLS

Software: SolidWorks, Creo, MATLAB, Python, CATIA, LabVIEW, AutoCAD, MS Office, MS Excel

Fabrication: 3D Printing, Laser Cutting, Lathe, Mill

Certification: Certified SolidWorks Associate

INTERNSHIP EXPERIENCE

Product Design Intern

May 2019 - August 2019

ABC Company

- Designed waste/vent & storm drain riser diagrams for 35-story mixed-use high-rise using Bluebeam Revu & AutoCAD
 - Participated in coordination meetings/conference calls with clients, architects, subcontractors, and consultants
 - Assisted Project Managers with calculations and bid documentation
 - Reviewed and ensured materials were meeting specifications on drawings
 - Analyzed costs and lead times to ensure they were within project budget and schedule
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RELEVANT PROJECTS

UC Berkeley Solar Vehicle Team

August 2018 - Present

Student Mechanical Engineer

- Optimized suspension, chassis, and powertrain by performing nite element analysis with ANSYS, and improved vehicle stability and maximum speed by 8% and 12% respectively
- Constructed the solar powered electric vehicle by using machine tools such as water jet, CNC Lathe, and milling machines, and won 1st place at Formula Sun Grand Prix 2017

UC Berkeley Hyperloop Team

January 2018 - Present

Lead Mechanical Design Engineer

- Designed a high speed rail transport by minimizing air resistance and analyzing air flow with SW flow simulation tool, and selected to compete in the SpaceX Hyperloop competition
- Integrated air resistance and wheel friction into braking system, and achieved reducing braking distance by 20%

ME 103 (Experimentation and Measurements): NACA 0015 Airfoil Performance Characterization

Fall 2018

Class Project: Modeled, 3D printed, and validated performance attributes of NACA 0015 in a wind tunnel

- Manufactured and assembled aircraft wings by laser cutting ribs and joining them to spar structures
 - Tracked and managed a ~\$15,000 budget by effectively overseeing resource procurement
 - Established and maintained industry relationships to secure 4 corporate partnerships
 - Modeled aircraft components and created wing assemblies in SolidWorks
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LEADERSHIP EXPERIENCE

Society of Women Engineers, Secretary

October 2017 - December 2018

- Led initiative to engage & empower more women in entrepreneurship through directly engaging w/female led startups
- Planned Startup Expo event, including workshops and panels with various local Bay area startups, along with a career fair involving 25 startup companies from around the Bay Area