Eliza Crenshaw

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Objective: Mechanical engineer with experience in fabrication and CAD rendering and an interest in product design.

EDUCATION

University of Southern California, Viterbi School of Engineering — **Los Angeles, CA**
Major Mechanical Engineering — May 2023
Minor Cinematic Arts — GPA: 3.90
Honors: Dean's List Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021

SKILLS

- Technical: MATLAB, SOLIDWORKS, NX 11, Python, Microsoft Office, InDesign

EXPERIENCE

Arcologue Inc — Los Angeles, California
Engineering Consultant — March 2021-Present

- Designed with Solidworks 3D computer aided design (CAD) and 3D printed an interactive prop and character for an immersive virtual reality experience start up.
- Exercised my research skills to select the proper electronics such as a raspberry pi and RFID reader to make the prop function and interactive.
- Collaborating currently with various disciplines to design other props and set decorations while also gaining experience in pitch development for investors, prototyping and startup basics.

LEADERSHIP AND INVOLVEMENT

Society of Women Engineers — Los Angeles, California
Ambassador and Finance Committee Member — September 2020-Present

- Selected from a competitive pool of SWE freshman and sophomores, attended weekly workshops on leadership, professional development, and finally joined a committee the following semester.
- Facilitating the reimbursement and allocation of funds to various committees in SWE as a member of the finance committee. Learning to work alongside USC's student government to meet established budgeting goals.

SC Racing Design Team — Los Angeles, California
Electronics Team Member — September 2021-Present

- Attending workshop hours twice a week to gain hands on experience with sensors, complex circuits, and various implementations skills.
- Developing knowledge and skills of fabrication with the use of various power tools, Solidworks 3D CAD, and the complex field of electrical engineering.

ACADEMIC PROJECTS

3D Printed Bridge — Fall 2019

- Designed on SOLIDWORKS, constructed, and tested (to failure) a 3D-printed bridge made from Polylactic Acid.
- Studied how to apply forces and analyze the results on SolidWorks, work with a group of 4 engineers, and make modifications to design after several rounds of testing. Received second place out of 14 teams for a 45.92 g bridge holding 38.6 kg.

King of the Hill — Fall 2019

- Designed and constructed a vehicle to climb a "hill" under its own power, stop at the top, and defend its position against an opposing vehicle coming up from the other side of the hill.
- Learned how to create a functioning chassis with power tools and work alongside other engineers in a group project setting.
- King of the Hill.mp4