

ROSE MCCARVER

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EDUCATION

California Polytechnic State University of San Luis Obispo (Cal Poly)

Bachelor of Science in Mechanical Engineering

Cal Poly Honors Program

Junior Standing

Expected Graduation: June 2021

GPA: 3.64

Dean's List, President's List

Relevant Skills: MATLAB, Dynamic Analysis, Python, Cura, Adobe, and Solidworks

EMPLOYMENT AND RESEARCH EXPERIENCE

Student Machine Shop Technician – San Luis Obispo, CA 09/2018 – Current

- Capable with lathes, mills, laser cutters, and automatic saws/routers
- Progressing through mastering every machine in the facility to assist students in their projects at all skill levels in a machine shop environment

NV5, Engineering Consulting – Irvine, CA 06/2018 – 08/2018

Mechanical Engineering Intern

- Working under experienced engineers in thermodynamic design and analysis calculations to determine heat loading for HVAC and Plumbing systems
- Utilized AutoCAD and Revit for drafting of building layouts and adapting to Title 24 Energy Code requirements

University of California Irvine – Irvine, CA 07/2016 – 08/2016

Research Intern

- Researched with a Materials Science professor and graduate student laboratory team
- Studied hot corrosion in steam turbines — contracted by the Navy, Rolls Royce, and GE
- Engineered and constructed a functional burner rig to simulate corrosion process and characterized samples

SOKA University – Aliso Viejo, CA 02/2016 – 04/2016

Research Intern

- Collaborated with the Environmental Science Professor to write laboratory procedures
- Assisted Environmental Science students with research, as in working the acid bath, etc.

PROJECT EXPERIENCE

Prototype Vehicles Laboratory (PROVE) – San Luis Obispo, CA 03/2018 – Present

Interior Design and Components Team Lead

- Designing and modeling interior systems for passenger mechanical interface in prototype student-made electric car that will be capable of exceeding world endurance records
- 3D modeling integrated systems using Solidworks and Siemens NX

Laser Cut Acrylic Roses – San Luis Obispo / San Juan Capistrano, CA 10/2014 – Present

Independent Business

- Fabricated handmade acrylic roses, for their sale on Valentine's and Mother's Day
- Used Adobe Illustrator to design and then laser cut petals

CLUBS AND AFFILIATIONS

Ignite: Public Speaking Club (VP)

Cal Poly Astronomical Society

Smile & Nod Improv. Workshops

Society of Women Engineers

Mustang Flying Club

Camino Real Playhouse, Theater