

BRYSON ROGERS

brysonro@usc.edu | (925) 519-8279

2658 Menlo Ave, Los Angeles, CA 90007

SUMMARY

As a mechanical engineering student, I have learned how to efficiently comprehend a problem and identify possible solutions. By working in teams in and out of school, I have practiced technical organization and learned how to cultivate communicative and mutually constructive professional relationships.

WORK HISTORY

MATH AND ENGINEERING TUTOR

University of Southern California | Los Angeles, CA

2019 – Present

JEI Learning Center | Pleasanton, CA

2018 – 2019

- Currently tutor engineering undergraduates in calculus and physics
- Developed and taught original precalculus and AP Calculus Summer courses to high school students

STUDENT RESEARCHER

2020

USC Viterbi Summer Research Program | Remote

- Performed computational fluid dynamics (CFD) simulations to research possible medical applications of acoustic streaming

CAD CONTRACTOR

2017 – 2018

Butler and Brown Manufacturing LLC | Santa Clara, CA

- Made 2D and 3D models, drawings, and animations of mechanical parts

ENGINEERING ASSISTANT

2017 – 2018

NASA Ames Research Center | Moffett Field, CA

- Created 3D models for the Volatile Ice Rheology Laboratory Facility Proposal
- Assisted research for the Mars Icebreaker and ELSAH missions under Dr. Christopher McKay

EDUCATION

UNDERGRADUATE, MECHANICAL ENGINEERING

2018 – Present

University of Southern California | Los Angeles, CA

- 3.94 GPA
- Dean's List | Fall 2018, Spring 2019, Fall 2019
- Tau Beta Pi Engineering Honors Society member | 2020
- Phi Kappa Phi Honors Society member | 2020
- Half Century Trojans Scholarship recipient | 2020
- Boeing Viterbi Scholarship recipient | 2019
- SCion Scholarship recipient | 2019, 2020
- USC Conscientious Living Organization Vice President | 2019

TECHNICAL SKILLS

Certified SolidWorks Professional | Professional-level 3D CAD certification

NX Nastran | 3D CAD and finite element analysis proficiency

OpenFOAM | Proficient in the generation and analysis of CFD simulations

MATLAB | Proficient in data analysis and technical graphic creation

Microsoft Office Suit | Experienced in technical organization and communication