

Joseph Stephens

jarstephens@gmail.com ♦ (415) 320-3774 ♦ San Diego, San Francisco, CA

EDUCATION

San Diego State University

Bachelor of Science in Mechanical Engineering

Graduated December 2020

Major GPA: 3.5

RELEVANT COURSEWORK

- Thermodynamics, Fluid Mechanics, Solid Modeling, Computer Programming, Engineering and Machine Design, and Control Systems/Mechatronics, Solar Engineering

SKILLS

- Solidworks, Matlab, AutoCad, CREO, EnergyPro, LabView, Arduino, and Microsoft Office
- Capable and familiar using CNC, waterjet, milling machine, and 3D printing technology
- Very experienced with the design process, FEA testing, PDR and CDR

APPLICABLE EXPERIENCE

SDSU Industrial Assessment Center, San Diego, CA

February 2020 - Present

Energy Engineering Intern

- Site inspections and assessments of several manufacturing facilities
- Developed recommendations to improve efficiency of operations
- Identified cost saving measures and methods to reduce electricity, water, and gas use

Emery Mechanical Engineering, San Diego, CA

May 2019 - May 2020

HVAC Engineering Intern

- Calculated cooling and heating loads for a range of properties using EnergyPro software
- Installed condensing units on-site in accordance to building plans
- Researched and utilized new advancements in the industry for energy conservation
- Reviewed and implemented building codes and Title 24 regulations into design

Miller Pacific Engineering Group, Novato, CA

Summers 2017, 2018

Geotechnical Engineering Intern

- Engineering evaluation of geologic conditions and analysis to design retaining walls
- Prepared contract documents including plans and specifications using AutoCAD, Word, and Excel
- Construction inspection and testing to confirm intent of design and conformance with plans and specifications
- Performed subsurface exploration, including; coordinating drilling contractors, soil sampling, classifying soil per ASTM methods and logging borings.
- Performed laboratory testing on soil samples to determine engineering properties

EXTRACURRICULAR

- SDSU Tutor for Engineering Courses

September 2019 –Present

- SDSU Mechatronics RoboSub Mechanical Team

January 2019 - December 2019

- SDSU Aztec Racing Formula SAE

January 2018 - December 2018

- Buck Institute Research for Aging Lab Assistant

January 2015 - June 2015

PROJECTS

- Senior Design: Piping simulation and analysis for geothermal power plant with Controlled Thermal Resources
- ME310: Detachable table extension for people with disabilities
- ME314: Under-desk exercise equipment
- Automotive Restoration: 1973 Suzuki TS400, 1973 Toyota Hilux, 1989 Toyota 4runner, 1981 Toyota Pickup