ROSHAN **JAISWAL-FERRI**

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California Polytechnic State University – San Luis Obispo

SUMMARY

I am an aerospace engineering student with a lot of hands-on experience and 3+ years of leadership roles. I am seeking to expand my knowledge in an engaging fast paced workspace while pursuing my degree.

Education

SEPTEMBER 2022 – CURRENT
AEROSPACE BS (IN PROGRESS), CAL POLY – SAN LUIS OBISPO
Majoring in Aerospace Engineering

AUGUST 2018 – JUNE 2022
DIPLOMA, GATEWAY HIGH SCHOOL
3.87 (4.17 weighted) GPA, Top 9%, Honors for all 4 years, 6 AP courses, and 5 Honor courses.

SKILLS

- Leadership
- Communication
- Product/Part Design
- Project Management
- CAD Design
- Manufacturing
- Programming/IT
- Teaching
- Accountability

ACTIVITIES

Home Web development. Outside of academics I keep active by cycling. I've volunteered at a local bike camp to help teach kids how to ride, and I have also participated on a competitive mountain biking team for two years as well as casual bouldering since mid-2021.

AWARDS

Mission Bit Programming: 2nd place web design a city-wide exposition of student work.

Gateway High School: *Principal's Subject Area Award* - Math

EXPERIENCE

SEPTEMBER 2023 – CURRENT
LIQUIDS TEAM, CAL POLY SPACE SYSTEMS (CPSS)
I am part of the injector sub-team, of Liquids, focusing on this year's "Carillon" bi-propellant rocket engine. I've worked on designing a prototype injector as well as a testing manifold to obtain data about CPSS's previous "Dulcimer" engine including flow rate and pressure. I am currently also studying CAM for our manufacturing process with CNC Mills.

JUINE 2023 – AUGUST 2023
ARCHITECTURE ENGINEERING JUNIOR FELLOW, CITY OF SAN FRANCISCO - OPPORTUNITIES FOR ALL
During the summer I worked as a junior fellow to teach architectural engineering to highschoolers, I focused on instructing physical modeling as well as CAD modeling and engineering drawings.

SEPTEMBER 2022 – JUNE 2023
AERO TEAM MEMBER, CAL POLY RACING FORMULA SAE
Responsibilities include designing, manufacturing, and testing new parts including working with carbon fiber, machining components, and 3D CAD on multiple programs. I have fabricated front and rear wings using carbon fiber composites and polymer resins. I am also responsible for designing, testing, and integrating aerodynamic sensor mounting for pitot tubes and pressure taps.

2021 – 2022
CO-CAPTAIN, FIRST ROBOTICS 4973
As team lead, responsibilities included budgeting, marketing, team oversight, scheduling, design overview, and general project management. I learned to make decisions under pressure and how to communicate with my co-captain to make the best decisions for the team. I also assembled an electrical system and sensor array capable of autonomous aiming and firing of dodge balls. Led the team to a record 10th place finish in our regional competition.

2019 – 2022
ELECTRICAL LEAD, FIRST ROBOTICS 4973
Responsible for communicating design restrictions and capabilities of electrical components, designing and assembly of the electrical system, and manufacturing of custom parts. I was responsible for integrating all the robot's moving parts into a modular and accessible structure for improved reliability.