

Education

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO

Major: Mechanical Engineering, B.S, Honors Program

Expected Graduation: June 2020

Overall GPA: 3.80

Major GPA: 4.0

Class Level: Senior Standing

Relevant Coursework:

Design for Strength and Stiffness

Dynamics

Materials Engineering

Mechanics of Materials

Thermodynamics

Manufacturing Processes

Employment

CAL POLY MACHINE SHOPS – *Shop Technician*

April 2018 - Present

- Maintained machines for metal-based manufacturing and woodworking
- Guided other students towards understanding and utilizing machines for their personal and class projects

GENERAL ATOMICS – *Product Line Enhancement Intern*

June 2018 – August 2018

- Reviewed engineering drawings to update material database and analyze hydraulic, pneumatic, and caustic system components
- Managed project timeline and engineering drawings
- Developed calculator for pressure drop along pneumatic and hydraulic lines to validate designs

AKELA, INC. – *Mechanical Engineering Intern*

July 2017 – September 2017

- Designed and manufactured a cart that transports a radar to detect objects underground
- Designed for manufacturability while considering operating conditions and serviceability

CIO SOLUTIONS – *Intern*

June 2015 – August 2015

- Updated client database and converted it to a new format to increase efficiency in locating client information
- Implemented an efficient system to notify engineers of technical issues

Experience

CAL POLY, BAJA SAE

Team Manager

June 2017 - Present

- Automated budget tracking spreadsheet to manage team funds and expenses
- Built relations with engineering sponsors to establish team resources and develop student networks

Component Fatigue Lead

November 2016 – June 2017

- Integrated the team's first component fatigue system to assist in analysis of failed components and establish a standard design life

CAL POLY RACING

President (2017-2018), Vice President (2018-Present)

June 2017 – Present

- Developed relationships between Baja and Formula SAE teams to increase collaboration through manufacturing, professional sponsorships, design reviews, and community outreach

OTHER INVOLVEMENT

- Flight Experience - 8.2 hours flight time toward pilot's license, over 20 hours ground training
- Reserve Officers Training Corps, Army (uncontracted)– *Team Leader*
- FIRST Robotics Competition - *Team President*

Relevant Skills

SolidWorks

Manufacturing: Lathe, Mill, Laser

MATLAB

Awards & Honors

First Robotics 2014 World Champion Finalist

Seal of Biliteracy, Spanish

Future Farmers of America State Degree