

## Education

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### CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO

**Major:** Mechanical Engineering, B.S, Honors Program

*Graduation Date: December 2022*

**GPA:** 3.79

President's List

**Relevant Coursework:**

Design for Strength and Stiffness

Fluid Mechanics

Materials Engineering

Mechanical Systems Design

Thermodynamics

Statics and Dynamics

Mechanics of Materials

Mechanical Vibrations

Electrical Engineering

## Employment

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### APPLE

*TDG Product Design Intern*

*November 2020 – Present*

- Worked cross-functionally to create a product given reliability, production, and packaging constraints
- Owned a project from initial conception, through detailed design, thermal testing, and supporting product build

*Soft Goods Development Engineering Intern*

*February 2019 – August 2019*

- Established tooling and manufacturing process for the Apple logo in iPad floating keyboard and smart covers
- Constructed prototypes using textile, plastic, adhesive, and fiberglass to refine and analyze product designs

**MICRO-VU – Mechanical Engineering Intern**

*June 2020 – November 2020*

- Performed tests and data analysis to quantify repeatability and accuracy of metrology lasers
- Coordinated with suppliers, design engineers, and product dealers to produce calibration and service kits

**CAL POLY MACHINE SHOPS – Shop Technician, Operations and Outreach Supervisor**

*April 2018 - Present*

- Maintained machines for metal-based manufacturing and woodworking
- Guided 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 the material database and analyze system components
- Developed a calculator for pressure drop along pneumatic and hydraulic lines to validate system designs

**AKELA, INC. – Mechanical Engineering Intern**

*July 2017 – September 2017*

- Designed and manufactured a cart to transport a radar and detect objects underground while considering operating conditions, serviceability, and manufacturing limitations

## Experience

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### CAL POLY RACING, BAJA SAE

*Chassis Design Lead*

*June 2019 – June 2020*

- Designed the external frame of a Baja SAE car with consideration for subsystem integration and driver safety
- Developed and implemented a process for manufacturing the chassis using welded steel tubing

*Team Manager*

*June 2017 – June 2019*

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

**CAL POLY RACING – President (2017-2018), Vice President (2018-2020)**

*June 2017 – June 2020*

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

## Relevant Skills

**CAD** | SolidWorks, Siemens NX, Fusion 360

**Machining** | Lathe (Manual), Mill (Manual and CNC), Zünd

**Manufacturing** | Waterjet, Laser Cutter, Woodworking

**Software** | MATLAB, MS Excel, Python

**Leadership** | Project Management, Public Speaking

## Awards & Certifications

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Private Pilot's License

Cal Poly Honor's Program

Army ROTC Sandhurst 2019 Competitor

Future Farmers of America State Degree

FIRST Robotics 2014 World Champion Finalist