

David Rock

Summary

I'm a Driven individual with a passion for Engineering and skills to match. I am a leader, a creative, a hard worker, and I manage myself with efficiency and respect.

AWARDS

1st place in the annual Cal Poly Entrepreneurs Elevator Pitch Competition

November 2024

- Presented an idea for a powerline powered drone to a panel of judges.
- Recognized for feasibility and innovation in power transmission

3rd place in TI national Coding competition

June 2022

- Designed and produced a prototype automated animal food dispenser coded using the TI coding software.

EDUCATION

California Polytechnic, San Luis Obispo, CA - *Electrical Engineering*

2023 - 2027

- Fundamentals of Computer Science, Chemistry For Engineers, Wave Physics, Electronics Physics, *Electrical Manufacturing, Circuit Analysis Lab, Calculus IV, Digital Design, Special Project, Modern Physics*

PERSONAL PROJECTS

Working Model of Hamilton Stage

- Proficient in simulation, implementation, and testing of pcb Designs.
- Proficient in 3D Modeling, 3D printing, C++ based Arduino language.

Wireless Charging Prototype

- Created a small scale wireless charging system to experiment with power distribution and voltage scaling. Used LTspice, MatLab, and Fusion 360.

WORK

Moshava Ba'ir – *Head Counselor*

Summer 2023

Lead counselors, organized events, lead activities, solved disputes.

Nextstera Tech Internship – *Hardware Engineer*

Spring 2024

- Worked on RF based prototype design and testing.
- Created environmental sensor arrays to measure prototype's temperature, humidity, and 9-axis Motion.
- Proficient in Python, Vidavo, Circuit Design, and Written Reports.

