# Denver Davis

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## EDUCATION

**California State University, Long Beach**                                    **Long Beach, CA**

*Bachelor of Science, Aerospace Engineering*                                    **May 2025**

## SKILLS

**Software skills:** Solidworks, Matlab, Python, C/C++/CSS, Javascript, React, Ubuntu, Labview, Simulink, OpenFOAM/Paraview, Siemens NX, Altium, Ansys

**Hardware skills:** Jetson Nano, Arduino, STM32, Raspberry PI

**Technical skills:** Power tools, Manometer, Wind tunnel, Thermocouples, pressure transducer, Soldering, Shapeoko, Plasma Cutter

## ENGINEERING PROJECT EXPERIENCE

**Long Beach Lunabotics**                                    **California State University, Long beach**
**Team member**                                    **Aug 2023 – Current**
- Designed a disposing mechanism of a 2 part conjoin rover within Solidworks
- Manufactured and assembled the disposing mechanism onto the secondary rover, used a shapeoko cnc and sawband
- Worked alongside electrical engineers to help solder, wire and fasten various electrical components within the rover

**Experimental Sounding Rocket Association**                                    **California State University, Long beach**
**Team member**                                    **Feb 2024 – Current**
- On boarded to a project developing an open source liquid fuel rocket design code in MatLab to optimize overall performance of rocket
- Machining liquid tanks and engines on lathes and drill press
- Planned rocket launch for team in fall 2024

**Computational Fluid Dynamics**                                    **California State University, Long beach**
**Research Assistant**                                    **Nov 2023 – Mar 2024**
- Computational fluid dynamics analysis of hydrogen jet crossing flames using Open Foam/Paraview to optimize hydrogen and oxygen combustion
- Stay closely on task meeting with mentor to show weekly report

**Big Idea Challenge 2024**                                    **California State University, Long beach**
**Hardware/Software Lead**                                    **Oct 2023 – Feb 2024**
- Led a team of 20 engineers in the areas of electrical, aerospace, and computer science for autonomous optimal disposal mechanism for Artemis III mission
- Supervised the development of a space rated solar powered battery system for autonomous performance
- Initiated to the concept of a fluid free thermal system to operate in a closed system within a vacuum
- Simulated stress reports of different structures in Solidworks and Ansys

**LAEP Research**                                    **California State University, Long beach**
**Research Assistant**                                    **Sep 2023 – Nov 2023**
- Operated software such as Linux/Ubuntu and python.
- Programmed on a Jetson Nano and Arduino to operate a camera, motors, motor drivers, and relays.

## WORK EXPERIENCE

**RELI Installation**                                    **Bloomington, CA**
**Technician**                                    **Jun 2022 – Aug 2023**
- Installed over a 100 Axon Fleet 3 camera systems into law enforcement vehicles
- Operated a plasma cutter for commercial retail
- Executed precise calibration of ethanol solution for ignition interlock devices.
- Proficiently utilized power hand tools to install cameras, brackets, and other components.
- Added fuses and rewired the electrical systems of automotive vehicles
- Skillfully maintained and tracked physical inventory utilizing Microsoft Excel.