

Daniel Hall

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Personal Summary

Motivated mechanical engineering student driven by a love of problem-solving and a growing interest in aerospace. Through two internships and some clubs, I've gained hands-on experience in project management, design, tooling fabrication, and interdisciplinary collaboration. Outside of engineering, I enjoy thought-provoking conversations, staying active and spending time with friends and family.

Education

California Polytechnic State University, San Luis Obispo September 2023 – June 2027

Bachelor of Science, Mechanical Engineering, Class Level - Junior GPA: 3.78

Internships

Manufacturing Engineering Intern, Trust Automation, San Luis Obispo, CA June 2025 – September 2025

- Designed and fabricated custom tooling, packaging, and workstations to boost efficiency and ergonomics.
- Developed optimized inventory layouts and work cell configurations to streamline material flow.
- Collaborated across departments and with suppliers to ensure manufacturability and quality
- Gained experience with ERP systems, industry drafting standards, and 6S methods to boost efficiency.
- Completed 60+ hours of SolidWorks design work on tooling, fixtures, and custom packaging solutions

Intern, Cantelmi Engineering, Bakersfield, CA June 2024 – September 2024

- Produced AutoCAD layouts for floor plans, panel schedules, and MEP designs to aid in
- Assisted in designing solar, HVAC, plumbing, and electrical systems for residential and commercial projects.
- Managed three projects under supervision of the head mechanical engineer.
- Strengthened technical proficiency in AutoCAD and interdisciplinary engineering coordination.

Skills

Software: SolidWorks, AutoCAD, MATLAB, EES, FEA

Equipment: Woodshop and Sheetmetal machines, End-mills, Lathes, CNC-machining, 3D printing, Laser Cutting

Club Involvement

Northrop Gruman Collaboration Project April 2025 – Present

- Working on 3D modeling (SolidWorks and Fusion 360), fabrication, material selection, structural analysis, and FEA testing of various drone system designs
- Interdisciplinary work with both Aerospace and Electrical engineering students
- Subject to quarterly design reviews with PMs as well as stakeholders at Northrop Gruman

Cal Poly Sales Engineering Club Fall 2023 - Present

- Weekly meetings to learn about the opportunities in the field of sales engineering.
- Meet representatives from different companies to learn about the field of sales engineering.

Work Experience

Teacher's Assistant/Grader, Cal Poly San Luis Obispo September 2025 – Now

- Aid Professor by directing students in advanced SolidWorks Lab (ME 251)
- Gained deeper understanding of SolidWorks processes by guiding students with complex designs and problems

Tutor, Cal Poly Learning Resource Center January 2025 – September 2025