Myles Miller

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EDUCATION

California Polytechnic State University (Cal Poly), San Luis Obispo Expected Graduation: June 2029
Bachelor of Science in Mechanical Engineering *GPA: 3.7* | *Sophomore*

TECHNICAL SKILLS

Software: Python, MATLAB, SolidWorks, Siemens NX **| Engineering:** GD&T, thermal testing, airflow and pressure measurement, data analysis, composites **| Fabrication:** CNC machining, mill, lathe, MIG/TIG welding, carbon fiber layup, vacuum bagging

PROJECT EXPERIENCE

Cal Poly Racing (Formula SAE) - Aerodynamics Team Member September 2025 - Present

- Model aerodynamic components in Siemens NX and validate concepts through wind tunnel testing, translating test data into competition-driven design revisions.
- Fabricate and integrate carbon fiber composite components using layup and vacuum bagging techniques for vehicle assembly.

Custom Electric Go-Kart

- Modeled chassis, steering, and drivetrain systems before manufacturing to improve performance, packaging, and safety.
- Partnered with a battery manufacturer to design a custom battery system tailored to the kart's performance requirements.

Laptop Cooling Stand Design & Thermal Optimization

- Designed and built a laptop cooling stand from scratch, narrowing four brainstormed concepts through peer engineering feedback into SolidWorks CAD models and 3D-printed prototypes.
- Refined internal duct geometry through repeated SolidWorks CFD simulations and physical testing, measuring air speed, pressure, and GPU temperature under load to validate performance.

PROFESSIONAL EXPERIENCE

Technical Support & Computer Assembly - Bay Area August 2022 - July 2025

- Built and troubleshot personal computers for clients, diagnosing hardware issues and explaining technical tradeoffs clearly.
- Developed hands-on hardware expertise across component selection, assembly, cooling, and diagnostic problem-solving through ongoing technical work.

Lifeguard & Operations Associate - Meadow Swim May 2023 - September 2025

- Safeguarded guests across a high-traffic facility for three consecutive summer seasons, applying emergency response and CPR/First Aid protocols under pressure.
- Coordinated with fellow lifeguards and facility staff to uphold safety standards and keep daily operations running smoothly.

LEADERSHIP & SERVICE

Eagle Scout - Boy Scouts of America

- Led a team of volunteers to repair a heavily used community bridge, managing materials, tools, and scheduling from planning through completion.
- Earned Eagle Scout, demonstrating leadership, project management, teamwork, and accountability.