

## Summary

Early-career engineer with experience supporting product development and system integration for industrial environments. Strong foundation in electrical and mechanical principles, with applied exposure to vehicle systems, component validation, and cross-functional collaboration. Proficient in contributing to Bills of Materials (BOM), interpreting schematics, and working with CAD-driven documentation workflows. Skilled in identifying field-relevant design improvements that support reliability, serviceability, and cost reduction. Background includes hands-on work, providing practical insight into manufacturability and downstream support. Currently seeking an engineering role where product development, cross-team coordination, and real-world system performance intersect.

## Technical Skills

Controls	PID tuning, ladder logic Allen-Bradley, classical control theory and feedback
Software	Simulink, RSLogix, MATLAB, Python, AutoCAD, SolidWorks, C/C++
Diagnostics	Oscilloscopes, multimeters, power supplies, electronics troubleshooting, calibration, emissions testing, I/O validation, Digital acquisition
Fabrication	Soldering, machining, prototyping, automotive diagnostics, hands-on electrical & mechanical

## Experience

- 11/2024 – **Calibration Technician**, *Liberty Test Equipment*, Roseville, CA
  - 03/2025 ○ Executed high-precision calibration of electronics test lab equipment in an A2LA-accredited lab.
- 05/2023 – **Certification Test Engineer**, *Trackonomy Systems*, San Jose, CA
  - 06/2024 ○ Led hardware compliance testing for CE, FCC Part 15, and UL standards, increasing certification approvals by 30%.
  - Conducted root cause analysis to improve product reliability and regulatory compliance.
  - Collaborated with cross-functional teams to secure market access for new products.
- 03/2019 – **Maintenance Technician**, *Peregrine School*, Davis, CA
  - 11/2022 ○ Managed facilities repair and maintenance, including cost estimation and project planning.
  - Coordinated with stakeholders to complete improvement projects on time and within budget.
- 05/2013 – **Certified Technician**, *Community Housing Opportunities Corp.*, Vacaville, CA
  - 06/2016 ○ Performed weatherization for a non-profit, ensuring home efficiency and natural gas appliance safety.
  - Provided excellent customer service and community support.

## Education

- 2016 – 2024 **California State University, Sacramento, CA**
  - **Master of Science in Electrical and Electronic Engineering**
  - **Bachelor of Science in Mechanical Engineering**

## Projects

- Graduate Thesis Developed Sequence-to-Sequence **neural network** models to predict control outputs for closed-loop temperature regulation systems, improving model accuracy for temperature stability.
- Racing Projects Machined and tested components for the Sac State formula SAE racing team. Off-campus, participation in the 24 Hours of Lemons race, contributed to mechanical repairs and **vehicle optimization** for endurance performance. Simulated **inverted pendulum** stabilization.