

Elijah Orozco

Electromechanical Design Engineering Intern

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SUMMARY

Detail-oriented Electrical Engineering student with hands-on experience in electromechanical design and development through academic projects. Proficient in circuit design, component selection, and debugging, showing a strong grasp of engineering principles. Worked collaboratively within cross-functional teams, aiming for innovative automotive technology advancements. Developed prototypes for effective project demonstrations, emphasizing clarity in technical documentation and teamwork to ensure project success. Excited about contributing skills to advance Rivian Innovations' mission while enhancing personal expertise in the field.

EDUCATION

Bachelor's Degree in Electrical Engineering

University of California, Los Angeles 🎓 GPA: 3.7 📅 2026 📍 Los Angeles, CA

Coursework: Circuit Design, Power Systems, Electronics, Control Systems

TECHNICAL SKILLS

- **Design Software:** CAD, MATLAB, LTspice
- **Prototyping Platforms:** Arduino, Raspberry Pi, FPGA
- **Programming Languages:** C, C++, Python
- **Simulation Tools:** Simulink, Multisim, PSpice
- **Database Management:** SQL, MongoDB, PLM Systems
- **Microcontroller Systems:** 8051, PIC, ATmega
- **Network Protocols:** PCIe, CAN, Ethernet
- **Testing Equipment:** Oscilloscope, Multimeter, Function Generator
- **Version Control:** Git, SVN, Mercurial
- **Cloud Computing:** AWS, Azure, Google Cloud

SKILLS

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|---------------------------|------------------------|---------------------------|---------------------------|
| • Circuit Design | • Debugging Techniques | • Analog Circuit Design | • Power Management |
| • Embedded Systems | • Signal Processing | • Digital Systems | • Systems Integration |
| • PLM Management | • Schematic Capture | • Testing & Validation | • Collaboration Tools |
| • Electronics Prototyping | • Arduino Programming | • Communication Protocols | • Technical Documentation |

EXPERIENCE

Electromechanical Design Intern

University Project 📅 September 2025 - May 2026 📍 Los Angeles, CA

Supported electromechanical design efforts in a capstone environment, focusing on prototype development and testing methodologies.

- Designed a mixed-signal circuit as part of an innovative automotive capstone project.
- Developed Proof of Concept prototypes, streamlining design processes for challenging automotive applications.
- Collaborated effectively with peers, managing design specifications to align with PLM standards.
- Conducted thorough debugging of hardware issues, achieving substantial improvements in reliability.
- Participated in multidisciplinary discussions with software and mechanical teams to enhance overall project performance.

Electrical Engineering Research Assistant

Academic Research 📅 January 2025 - August 2025 📍 Los Angeles, CA

Contributed to vehicle electrical systems research, supporting innovative technological advancements and publications.

- Assisted in researching electrical architectures, facilitating reports on emerging technologies in transportation.
- Utilized CAD software for precise schematic captures in experimental circuits.
- Engaged in documentation processes for research submissions, promoting clear communication and insight.
- Participated in presentations demonstrating research findings, enabling peer engagement and knowledge sharing.

Embedded Systems Developer

Course Project 📅 September 2024 - December 2024 📍 Los Angeles, CA

Developed functional embedded systems showcasing capabilities for real-time data acquisition in automotive settings.

- Prototyped an embedded system using Arduino for dynamic data collection in various automotive scenarios.
- Implemented effective communication protocols (I2C, SPI) ensuring smooth interactions between components.
- Validated designs through rigorous testing, reporting results for iterative improvement cycles.
- Collaborated with team members during university engineering symposium presentations, enhancing public speaking confidence.

LEADERSHIP & AWARDS

- Dean's List, University of California, Los Angeles (2024, 2025)
- 1st Place, Annual Engineering Hackathon (2025)

CERTIFICATIONS

- Introduction to Embedded Systems 📅 2025
- Fundamentals of Electrical Engineering 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, Electrical Engineering Society, UCLA
- Volunteer, STEM Outreach Program for High School Students

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST