

Austin Zimmerman

Electrical Systems Engineer

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SUMMARY

Recent Electrical Engineering graduate eager to apply knowledge and skills in a dynamic engineering firm. Brings practical experience from academic projects focused on designing transit systems and conducting technical evaluations. Proficient with SCADA systems and electrical safety assessments, driven by curiosity and commitment to professional growth. Demonstrated ability to compile detailed technical reports and effectively collaborate within teams. Interests lie in advancing electrical system designs and contributing to innovative solutions within the industry. Ready to embrace challenges and foster strong relationships across teams and with clients.

EDUCATION

Bachelor of Science in Electrical Engineering

University of California, San Diego 🎓 GPA: 3.75 📅 2026 📍 San Diego, CA

Coursework: Circuit Analysis, Power Systems, Control Theory, Signal Processing

TECHNICAL SKILLS

- **Control Systems:** SCADA, PLC Programming, Automation Tools
- **Electrical Safety Analysis:** Arc Flash, Grounding Techniques, Short Circuit Evaluation
- **Design Software:** AutoCAD, MATLAB, LTSpice
- **Documentation Standards:** IEEE Standards, ASME Codes, Technical Writing
- **Communications Protocols:** TCP/IP, RS-232, Modbus
- **Project Management Tools:** Trello, Asana, Microsoft Projects
- **Simulation Software:** MATLAB Simulink, PSS/E, SimPowerSystems
- **Measurement Tools:** Multimeter, Oscilloscope, Spectrum Analyzer
- **Data Collection Methods:** Surveys, Interviews, Observational Studies
- **Field Studies:** Site Inspections, Equipment Testing, Environmental Assessments

SKILLS

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|----------------------------|------------------------|--------------------------|--------------------------|
| • AutoCAD | • Team Collaboration | • Traffic Power Systems | • System Optimization |
| • SCADA Systems | • Arc Flash Analysis | • Data Analysis | • Project Management |
| • Electrical System Design | • Grounding Studies | • Research Methodologies | • Performance Evaluation |
| • Technical Report Writing | • Utilities Assessment | • Engineering Standards | • Safety Protocols |

EXPERIENCE

Electrical Systems Design Developer

University Project 📅 January 2025 – May 2026 📍 San Diego, CA

Contributed to a simulated transit system design, mastering utilities and grounding strategies. Coordinated efforts across the team for effective integration of SCADA models. Engaged with faculty through presentations that emphasized findings and enhanced project visibility. Delivered thorough technical reports reinforcing project goals using industry practices.

- Led design efforts for system utility components, enhancing understanding of grounding and safety protocols.
- Conducted arc flash and short circuit studies, advocating for best practices through comprehensive reporting.
- Collaborated with peers on SCADA model developments, merging theoretical concepts with applied knowledge.
- Presented key insights at academic forums, garnering recognition for clear communication and innovation.
- Utilized AutoCAD for robust system layout designs, improving stakeholder visualization of complex designs.
- Mentored students on fundamental electrical principles, fostering a collaborative learning environment.

Electrical Engineering Research Assistant

Academic Research 📅 September 2024 – December 2024 📍 San Diego, CA

Supported a research initiative on overhead contact systems (OCS), engaging in data analysis and documentation creation. Attended discussions highlighting advancements in OCS while formulating research methodologies. Actively contributed to presentations sharing insights with wider communities.

- Played a pivotal role in analyzing data for electrified transit research, modeling efficiency for prototypes.
- Created technical documents clarifying methodologies followed during the research, facilitating review processes.
- Participated in ongoing meetings, discussing progress and brainstorming effective resolutions for challenges faced.

- Gained exposure to practical electrical standards by actively collaborating within a skilled research team.
- Received accolades for detailed insights provided during evaluations, enhancing overall project impact.
- Helped develop a major presentation, articulating compelling findings to an audience of professionals.

SCADA Systems Simulator Developer

Course Project 📅 August 2024 – December 2024 📍 San Diego, CA

Crafted a SCADA system simulator during a capstone course, showcasing expertise in modern engineering applications. Evaluated performance metrics leading to improved designs. Collaborated efficiently, presenting project contributions reflecting teamwork and anticipation of industry needs.

- Designed a comprehensive SCADA simulator, utilizing theoretical approaches for understanding practical application.
- Assessed system performance, documenting potential improvements for future implementations.
- Worked closely with team members on project outcomes, ensuring alignment with learning objectives.
- Drafted user manuals and technical specifications, enhancing usability for future users of the simulator.
- Iteratively refined designs based on feedback, showcasing adaptability and focus on quality.
- Fostered group synergy through transparent communication, leading to successful project deliverables.

LEADERSHIP & AWARDS

- Dean's List, University of California, San Diego (2025)
- First Place, University Engineering Challenge (2025)

CERTIFICATIONS

- Engineer-in-Training (EIT) 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association
- Participant, Annual Hackathon, University of California, San Diego

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST