

Elijah Orozco

Electrical Engineer III

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STRENGTHS

- Analytical Problem Solving**
Analytical problem-solving skills illustrated through successful identification and resolution of complex circuit challenges during design phases.
- Collaborative Teamwork**
Fostered teamwork through active partnerships with colleagues, resulting in improved product design and delivery outcomes.
- Technical Documentation**
Created essential technical documentation that ensured clarity in design specifications and instructions during production.
- Hands-On Troubleshooting**
Engaged in hands-on troubleshooting activities which led to faster issue resolution and enhanced product reliability in live scenarios.
- Project Leadership**
Demonstrated project leadership throughout development cycles, driving efforts from concept through production efficiently.

SKILLS

Circuit Design HW/SW Integration
PCB Design Troubleshooting
Project Management
Cross-Functional Collaboration
Audio Circuitry Battery Systems
Digital System Architecture
Analog Circuit Development
Validation Testing
Schematic Generation
Component Evaluation

SUMMARY

Dedicated Electrical Engineer with over five years of experience designing advanced circuitry for communication and power-management devices. Demonstrated proficiency in managing projects from conception through production, including analog and digital systems, audio integration, and battery-powered applications. Strong focus on ensuring product reliability while adhering to regulatory standards. Skilled in cross-functional collaboration with teams across sales, quality assurance, mechanical design, firmware development, and manufacturing facilities. Eager to contribute to a progressive company by leveraging expertise to optimize designs and enhance performance across diverse engineering challenges.

EXPERIENCE

Electrical Engineer

Innovative Electronics January 2021 – Present Chicago, IL

Serves as an Electrical Engineer responsible for the end-to-end development process of various communication circuits. Collaborates with teams to ensure seamless hardware and software integrations while enhancing functional performance.

- Led design and development initiatives for advanced communication circuits, delivering complex projects within established timelines and budget constraints.
- Architected digital system designs integrating microprocessors and peripheral connectivity to enhance product capabilities.
- Developed and validated audio circuitry using A/D and D/A technology, ensuring compliance with customer specifications and quality expectations.
- Managed component evaluation processes assuring high levels of performance, reliability, and manufacturability in final products.
- Actively engaged with cross-functional teams, resolving production challenges and boosting overall product quality and consistency.
- Created comprehensive technical documentation including schematics and test protocols, supporting effective manufacturing workflows.

Junior Electrical Engineer

Tech Solutions, Inc. June 2018 – December 2020 Chicago, IL

Functioned as a Junior Electrical Engineer focused on assisting with both analog and digital circuit designs while working collaboratively to support successful product launches.

- Played a key role in the design and testing phases for digital and analog circuits used within various communication devices, aiding multiple project deliveries.
- Conducted troubleshooting procedures utilizing oscilloscopes and digital multimeters (DMMs) to fine-tune circuit performance and efficiency.
- Supported validation testing efforts to confirm compliance with industry regulatory standards, contributing to product safety and reliability.
- Partnered closely with engineering teams, refining existing product features through analysis of customer feedback and performance surveys.
- Produced PCB layouts and provided design guideline recommendations which enhanced product durability and reliability.
- Engaged in design reviews culminating in DFMEAs, successfully identifying risks early and proposing mitigation strategies to improve outcomes.

LEADERSHIP & AWARDS

- Certified LabVIEW Associate Developer (CLAD), 2026
- Altium Designer Certification, 2026

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Illinois at Chicago GPA: 3.5 2018 Chicago, IL

Design Reviews

Compliance Verification

LANGUAGES

English Native

Spanish Proficient

MY CAREER



● Electrical Engineer at Innovative Electronics (5.5 Years)

● Junior Electrical Engineer at Tech Solutions, Inc. (2.5 Years)

Coursework: *Circuit Theory, Digital Systems Design, Control Systems, Electromagnetic Fields*

CERTIFICATIONS

- Certified LabVIEW Associate Developer (CLAD) 📅 2026
- Altium Designer Certification 📅 2026

TECHNICAL SKILLS

- **Circuit Simulation Tools:** SPICE, Multisim, PSpice
- **Testing Equipment:** Oscilloscope, Function Generator, DMM
- **CAD Software:** Altium Designer, Eagle, KiCad
- **Microprocessor Platforms:** ARM, Arduino, Raspberry Pi
- **Programming Languages:** C/C++, Python, LabVIEW
- **Documentation Standards:** IEEE Standard, IPC Standards, ISO Standards
- **Communication Protocols:** I2C, SPI, UART
- **Product Lifecycle Management:** PLM Software, Agile Methodologies, Waterfall Model
- **Project Management Tools:** Trello, Asana, JIRA
- **Regulatory Compliance:** FCC, CE, RoHS

PROFESSIONAL AFFILIATIONS

- Member, IEEE - Institute of Electrical and Electronics Engineers
- Volunteer, Chicago STEM Education Foundation

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST