

Elijah Orozco

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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 January 2021 – Present
Innovative Electronics *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 June 2018 – December 2020
Tech Solutions, Inc. *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 2018
University of Illinois at Chicago GPA: 3.5 *Chicago, IL*

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

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
- Design Reviews
- Compliance Verification

PROFESSIONAL AFFILIATIONS

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

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST