



# Elijah Orozco

## Electrical Engineer III

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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.

### 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

### 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

## Analog Circuit Development

Validation Testing

Schematic Generation

Component Evaluation

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)

## EDUCATION

### Bachelor's Degree in Electrical Engineering

University of Illinois at Chicago 🎓 GPA: 3.5 📅 2018 📍 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

## 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