

Andres Ho

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SUMMARY

Seasoned Electrical Engineer with over two years of experience in supporting electrical design and applications within manufacturing settings. Known for collaborating effectively on complex projects, allowing for the creation and implementation of customized solutions. Experience encompasses troubleshooting electromechanical systems, enhancing product reliability, and fostering operational efficiencies through partnership with cross-functional teams. Committed to ensuring that all technical documentation is accurate while participating actively in testing and validation efforts. Passionate about improving processes and delivering high-quality outcomes aligned with business goals.

EXPERIENCE

Electrical Applications Engineer June 2025 - Present
Tech Innovations *Raleigh, NC*

- Electric Applications Engineer role emphasizes collaboration with senior engineers and contributes directly to new electrical system implementations and product modifications. Support spans troubleshooting, documentation maintenance, and project coordination.
- Worked alongside seasoned engineers on innovative electrical designs for new products, aligning with customer specifications for performance.
 - Diagnosed and resolved issues in electromechanical systems, enabling improvement initiatives that significantly boosted reliability.
 - Partnered closely with manufacturing teams to troubleshoot production inefficiencies, directly improving workflow and minimizing downtime.
 - Authored and revised comprehensive technical documentation, including schematics, maintaining rigorous standards for accuracy and compliance.
 - Engaged in critical validation tests of electrical systems, driving timely project completion with adherence to quality metrics.
 - Contributed to continuous improvement projects, enhancing operational methods to bolster productivity and drive business growth.

Junior Electrical Engineer January 2024 - May 2025
NextGen Engineering *Greenville, SC*

- Role as Junior Electrical Engineer emphasized the intricate details involved in designing electrical components while working collaboratively across various engineering disciplines.
- Assisted in crafting design modifications for core electrical components, focusing extensively on optimizations for manufacturability.
 - Conducted collaborative root cause analyses for electrical disruptions, facilitating actionable solutions among project stakeholders.
 - Supported in compiling engineering change notices and bills of materials, effectively streamlining essential documentation workflows.
 - Played a key role in tracking progress across multiple projects, providing transparency into milestones and technical challenges to enhance communication.
 - Participated in safety and efficiency assessments for ongoing improvement projects, promoting enhanced safety practices in production.
 - Acquired expertise in CAD software, aiding greatly in the development and detailed illustration of electrical system layouts.

LEADERSHIP & AWARDS

- Dean's List, University of North Carolina at Charlotte - 2024, 2025
- First Place, Engineering Design Competition - 2025

EDUCATION

Bachelor's Degree in Electrical Engineering 2025
University of North Carolina at Charlotte GPA: 3.7 *Charlotte, NC*
Coursework: Electrical circuits, Circuit analysis, Electronics, Electromagnetic fields

CERTIFICATIONS

- Certified Engineering Technician (CET) 📅 2026
- CAD Fundamentals Certification 📅 2026

TECHNICAL SKILLS

- **Electrical Design Software:** AutoCAD, SolidWorks, MATLAB
- **Document Control Systems:** SharePoint, Confluence, Autodesk Vault
- **Validation Testing Tools:** LabVIEW, Multimeter, Oscilloscope
- **Troubleshooting Methodologies:** Six Sigma, Root Cause Analysis, PDCA
- **Communication Tools:** Microsoft Teams, Slack, Email

- **Project Management Tools:** Trello, JIRA, Asana
- **Engineering Standards:** IEC 60204, IPC-A-620, IEEE 80
- **Quality Assurance Processes:** ISO 9001, Lean Manufacturing, Kaizen
- **Technical Documentation:** BOM Creation, Schematic Diagrams, Technical Reports
- **CAD Tools:** AutoCAD Electrical, NX, EPLAN

SKILLS

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|---|---|-----------------------------|-----------------------------|
| • Electrical troubleshooting | • Problem solving and critical thinking | • Testing and validation | • Project planning |
| • Electrical schematics and wiring diagrams | • Manufacturing support | • Continuous improvement | • Engineering documentation |
| • CAD design and documentation | • Cross-functional collaboration | • Product reliability | • Customer specifications |
| • Root cause analysis | • Technical communication | • Electromechanical systems | |

PROFESSIONAL AFFILIATIONS

- Member, Institute of Electrical and Electronics Engineers (IEEE)
- Volunteer, Habitat for Humanity

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST