

Omar Hunt

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SUMMARY

Detail-oriented Electrical Engineer with a Ph.D. in Electrical Engineering and hands-on experience in electronics hardware and software development. Proven ability to solve complex engineering challenges within interdisciplinary teams while managing multiple projects. Passionate about creating effective solutions in areas like power systems, renewable energy, and consumer products. Strong communication skills enhance discussions with varied audiences; technical reports and presentations consistently uphold clarity and precision. Committed to driving innovation, fostering collaboration, and helping clients achieve optimal outcomes through thoughtful engineering strategies.

EXPERIENCE

Electrical Engineer June 2024 - Present
Tech Innovations LLC Peoria, IL

Lead multidisciplinary teams that tackle complex technical challenges across power systems and renewable energy projects, upholding project scopes and objectives. Manage and execute rigorous testing protocols which align with industry standards, ensuring quality deliverables.

- Spearheaded innovative solutions for high-profile projects, enhancing system efficiency and reliability.
- Collaborated with engineers and business stakeholders to align technical strategies with client goals.
- Developed comprehensive test plans and executed them, achieving robust results that strengthened product offerings.
- Prepared thorough technical documentation and presented findings at industry conferences, boosting firm visibility.
- Mentored junior engineers, cultivating their skills while enriching team dynamics and knowledge sharing.
- Facilitated regular project updates with clients and partners, reinforcing trust and transparency.

Research Engineer January 2022 - May 2024
Future Tech Solutions Aurora, IL

Conducted targeted research in embedded systems and control methodologies, significantly impacting product design and safety features. Engaged closely with cross-functional teams for data-driven insights that enhanced consumer focused outputs.

- Analyzed experimental data from embedded systems, leading to optimized design decisions.
- Developed detailed protocols for testing electrical components, streamlining evaluation processes.
- Collaborated with users to gather feedback on products, informing modifications that established safer designs.
- Presented findings at key conferences, enhancing organizational reputation through shared knowledge.
- Implemented SOPs that elevated laboratory efficiency, cutting unnecessary costs without sacrificing quality.
- Authored clear project documentation, establishing benchmarks for compliance and clarity.

Graduate Research Assistant September 2020 - December 2021
Innovative Labs Inc. Champaign, IL

Contributed significantly to research initiatives on power electronics, collaborating on publications and promoting advancements in the field. Focused on practical lab tests and simulation modeling as foundational elements of the research process.

- Produced effective simulation models predicting electrical behavior under various conditions, bringing clarity to complex concepts.
- Participated actively in design reviews, lending insights into system developments based on tested knowledge.
- Conducted hands-on assessments of prototypes, generating actionable results for further iterations.
- Worked alongside faculty members to refine lab techniques, elevating overall research productivity.
- Assisted in drafting proposals that secured funding, setting strategic directions for future research.
- Engaged peers in collaborative environments, fostering an atmosphere of learning and growth.

LEADERSHIP & AWARDS

- Dean's List, University of Illinois Urbana-Champaign, 2020-2022
- Research Excellence Award, University of Illinois Urbana-Champaign, 2021

EDUCATION

Ph.D. in Electrical Engineering 2026
University of Illinois Urbana-Champaign GPA: 3.8 Champaign, IL
Coursework: Advanced Circuit Analysis, Power Electronics, Control Systems, Renewable Energy Technologies

CERTIFICATIONS

- Certified Electronics Technician (CET) 📅 2025
- Fundamentals of Project Management 📅 2026

TECHNICAL SKILLS

- **Analysis Tools:** MATLAB, Simulink, LTSpice
- **Programming Languages:** Python, C++, Java
- **Simulation Software:** ANSYS, Multisim, PSpice
- **Testing Equipment:** Oscilloscope, Multimeter, Spectrum Analyzer
- **Collaboration Platforms:** GitHub, JIRA, Microsoft Teams
- **Hardware Design Tools:** LabVIEW, Altera Quartus, Eagle PCB
- **Database Management:** MySQL, SQLite, MongoDB
- **Standards and Compliance:** IEEE Standards, IPC Standards, ISO Regulations
- **System Development Life Cycle:** Agile, Waterfall, Hybrid
- **Risk Management Tools:** FMEA, Fault Tree Analysis, Root Cause Analysis

SKILLS

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|---------------------|---------------------------|-----------------------------------|---------------------------|
| • Circuit Analysis | • Technical Reporting | • Data Analysis | • Technical Documentation |
| • Power Electronics | • Project Management | • Testing Protocols | • Simulation Modeling |
| • Control Systems | • Renewable Energy | • System Design | • Compliance Evaluation |
| • Embedded Systems | • Consumer Product Design | • Interdisciplinary Collaboration | |

PROFESSIONAL AFFILIATIONS

- Vice President, Electrical Engineering Society, University of Illinois, 2021-2022
- Member, Renewable Energy Club, University of Illinois, 2020-2022

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST