



David Johnston

Electrical Design Engineer

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SUMMARY

Engaged as an Electrical Design Engineer with expertise in creating detailed electrical schematics and wiring diagrams for diverse industrial applications. Built proficiency in AutoCAD Electrical, enabling efficient design of control panels meeting UL508A and NEC standards. Collaborated closely with mechanical engineering peers to bridge systems seamlessly. Delivered high-quality designs impactful to operational efficiency and compliance adherence. Demonstrated consistent commitment through thorough component selection, project documentation upkeep, and proactive troubleshooting. Eager for an opportunity contributing to innovative electrical solutions.

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Illinois Chicago 🎓 GPA: 3.7 📅 2026 📍 Chicago, IL

Coursework: Control Systems, Circuit Analysis, Electromagnetics, Digital Electronics

TECHNICAL SKILLS

- **Software Proficiency:** AutoCAD Electrical, Microsoft Excel, MATLAB
- **Engineering Standards:** UL508A, NEC, IEC
- **Documentation Tools:** MS Word, Google Docs, SharePoint
- **Project Management Software:** Trello, Asana, JIRA
- **Component Types:** Relays, Breakers, Terminal Blocks
- **Wiring Principles:** AC/DC Circuits, Signal Paths, Power Distribution
- **Application Areas:** Industrial Automation, Control Systems, Machinery Design
- **Testing Equipment:** Multimeter, Oscilloscope, Function Generator
- **Team Collaboration Platforms:** Zoom, Microsoft Teams, Slack
- **Simulation Software:** LTSpice, PSpice, Simulink

EXPERIENCE

Electrical Design Engineer Intern

University Project 📅 June 2025 - August 2026 📍 Chicago, IL

Contributed as an Electrical Design Engineer Intern focusing on developing precise electrical drawings for academic initiatives. Worked intimately with AutoCAD Electrical to produce schematics that emphasized strong compliance with industry regulations. Drove projects centered on designing automated controls intersecting both electrical and mechanical frameworks, promoting collaborative problem-solving at every turn.

- Developed comprehensive electrical schematics using AutoCAD Electrical for university projects.
- Designed control panels fulfilling UL508A and NEC compliance requirements diligently.
- Selected components like PLCs and relays based on project criteria ensuring functional integrity.
- Collaborated actively with mechanical teams enhancing overall system integration.
- Maintained precise documentation including BOMs supporting project management initiatives.
- Presented project outcomes articulately to faculty and peers displaying design impacts.

Electrical Systems Design Assistant

University Project 📅 September 2024 - May 2025 📍 Chicago, IL

Assisted in various electrical design efforts honoring lab enhancement missions within academic confines. Engaged in generating wiring diagrams useful for multiple experimental setups while sowing a seeds of compliance research among classmates and facilitating design thinker workshops, boosting collective knowledge-sharing.

- Created foundational wiring diagrams piloting automation enhancements across labs.
- Conducted extensive evaluations on safety-standard-compliant electrical components.
- Produced project files ensuring meticulous version control throughout project lifecycles.

STRENGTHS

- 👥 **Collaboration**
Cross-functional teamwork enabled seamless integration of systems on complex projects, championing clarity when needed most.
- 💡 **Innovative Thinking**
Approached problems creatively, facilitating out-of-the-box solutions during design reviews that became invaluable.
- ✅ **Attention to Detail**
Crafted technical documents noted for accuracy, crucial in assisting peers towards flawless project execution.
- ✂️ **Technical Skills**
Gained practical skills through hands-on experiences allowing easy navigation through diverse engineering tools and methodologies.
- 💬 **Effective Communication**
Communicated complex concepts clearly in presentations, earning recognition for engaging my audience and conveying technical goals effectively.

SKILLS

AutoCAD Electrical PLCs

Wiring Diagrams Panel Layouts

Document Maintenance

Compliance Standards

Schematic Design

Electrical Design

Automation Solutions

Research SkillsCollaborative Work

Design ReviewTroubleshooting

Presentation Skills

Technical Reporting

LANGUAGES

EnglishNative

SpanishIntermediate

MY CAREER



- Electrical Design Engineer Intern at University Project (1.2 Years)
- Electrical Systems Design Assistant at University Project (8 Months)

- Executed troubleshooting of design issues providing well-informed resolution approaches.
- Compiled technical reports, synthesizing progress and insights reflective of ongoing work.
- Guided peer workshops discussing electrical design fundamentals nurturing collaboration.

LEADERSHIP & AWARDS

- Dean's List, University of Illinois Chicago – Fall 2024, Spring 2025
- 1st Place, University Hackathon – 2025

CERTIFICATIONS

- AutoCAD Certified Professional 📅 2025
- PLC Programming Certification 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, Electrical Engineering Society, University of Illinois Chicago
- Volunteer, STEM Outreach Program, University of Illinois Chicago

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST