

Kingston Mcguire

Entry-Level Electrical Design Engineer

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SUMMARY

Detail-oriented Electrical Engineering graduate with hands-on experience in electrical design projects. Practiced in custom control panel design and wiring schematics, leveraging AutoCAD for technical drawings. Eager to support innovative designs while working collaboratively. Demonstrated effective time management across multiple projects. Committed to continuous learning and applying knowledge of electrical components and systems. Enthusiastic about joining a forward-thinking team where skills can enhance organizational goals.

EDUCATION

Bachelor of Science in Electrical Engineering

Springfield University  GPA: 3.7  2026  Springfield, IL

Coursework: *Electrical Systems, Control Theory, Circuit Analysis, Power Electronics*

TECHNICAL SKILLS

- **Design Software:** AutoCAD, MATLAB, SolidWorks
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Testing Equipment:** Multimeter, Oscilloscope, Function Generator
- **Documentation Standards:** IEEE, ANSI, ISO
- **Programming Languages:** C, C++, Python
- **Communication Tools:** Slack, Microsoft Teams, Zoom
- **Research Databases:** IEEE Xplore, ScienceDirect, Google Scholar
- **Simulation Tools:** MATLAB Simulink, PSpice, LTspice
- **Prototyping Tools:** Arduino, Raspberry Pi, PCB Design Software
- **Network Protocols:** TCP/IP, RS-232, CAN Bus

SKILLS

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|---------------------|-----------------------------|---------------------------------|-------------------------|
| • AutoCAD | • Technical Documentation | • Bill of Materials | • Custom Control Panels |
| • Electrical Design | • Team Collaboration | • Heat Dissipation Calculations | • Electrical Components |
| • Control Systems | • Project Management | • Validation Testing | • Data Sheets |
| • Wiring Diagrams | • Schematics Interpretation | • Component Research | |

EXPERIENCE

Electrical Engineering Student

University Project  August 2025 - May 2026  Springfield, IL

Engaged as part of an academic project focusing on practical applications in electrical design and system integration, gaining valuable insight into industry-standard practices.

- Designed a custom control panel prototype for smart home technology, aiming for energy efficiency.
- Developed wiring diagrams ensuring correct implementation of systems during testing phases.
- Conducted extensive validation tests for control circuits to verify operational reliability.
- Collaborated with peers to create a detailed bill of materials meeting all specifications.
- Efficiently used AutoCAD to produce precise technical drawings for engineering documentation.
- Presented findings and technical data clearly to faculty, showcasing communication ability.

Electrical Design Developer

Capstone Project  August 2025 - May 2026  Springfield, IL

Led an impactful capstone project targeting renewable energy solutions through innovative electrical designs, significantly contributing to sustainable technology.

- Researched component requirements effectively using datasheets to make informed decisions.
- Maintained thorough documentation throughout the project lifecycle, enhancing accountability.
- Organized team meetings focused on prioritizing tasks and aligning with project objectives.
- Performed heat dissipation calculations crucial for maintaining efficiency in proposed systems.
- Exhibited strong multitasking capabilities by adhering to deadlines and quality standards.
- Fostered collaboration among team members, optimizing workflows for better productivity.

LEADERSHIP & AWARDS

- Dean's List, Springfield University, 2025
- First Place, University Engineering Competition, 2026

CERTIFICATIONS

- AutoCAD Certification 📅 2026
- Electrical Design Fundamentals 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Electrical Engineering Club, Springfield University
- Volunteer, Community Renewable Energy Workshop, 2025

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST