

# Kingston Mcguire

## Entry-Level Electrical Design Engineer

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 Springfield, IL 62701

### STRENGTHS

-  **Creative Problem Solver**  
Excelled at designing innovative solutions for complex electrical design obstacles encountered in projects.
-  **Strong Communicator**  
Articulated intricate technical concepts clearly during presentations, fostering understanding among diverse audiences.
-  **Team Player**  
Collaborated efficiently within diverse teams, driving productivity and successful project outcomes.
-  **Adaptable Learner**  
Quickly grasped new technologies and concepts, demonstrating enthusiasm and readiness in every project.
-  **Detail-Oriented**  
Consistently ensured accuracy in drawings and schematics, which minimized errors in implementation.

### SKILLS

AutoCAD Electrical Design

Control Systems Wiring Diagrams

Technical Documentation

Team Collaboration

Project Management

Schematics Interpretation

Bill of Materials

Heat Dissipation Calculations

Validation Testing

Component Research

Custom Control Panels

Electrical Components

Data Sheets

### 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

### 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

LANGUAGES

|         |            |
|---------|------------|
| English | Native     |
| Spanish | Proficient |

MY CAREER



- Electrical Engineering Student at University Project (9 Months)
- Electrical Design Developer at Capstone Project (9 Months)

- 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

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST