

Aria Heath

PLC Controls Engineer

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SUMMARY

Recent Electrical Engineering graduate with hands-on experience in PLC programming and industrial automation gained through academic projects and teamwork. Proficient at designing control systems and troubleshooting complex problems, showcasing strong communication and problem-solving skills. Eager to embrace occasional travel for project implementations while eager to leverage technical expertise in a dynamic engineering setting. Built strong collaborations throughout university experiences, leading to successful completion of projects emphasized by innovation and functionality.

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Louisville 🎓 GPA: 3.8 📅 2026 📍 Louisville, KY

Coursework: Circuit Design, Automation Systems, Control Theory, Robotics

TECHNICAL SKILLS

- **Control System Tools:** Allen-Bradley PLC, Siemens S7, Mitsubishi Q Series
- **Programming Languages:** Ladder Logic, Structured Text, C Programming
- **Simulation Software:** MATLAB, Simulink, RSLogix
- **Documentation Software:** AutoCAD, Visio, Microsoft Office
- **Testing Equipment:** Multimeter, Oscilloscope, Signal Generators
- **Manufacturing Methods:** Lean Manufacturing, Six Sigma, Agile Methodologies
- **Electrical Standards:** NEC, IEC, ISO 9001
- **Networking Technologies:** Ethernet/IP, Modbus TCP, Profibus Network
- **Robotics Platforms:** Robot Operating System, FANUC, ABB Robots
- **Safety Protocols:** Lockout/Tagout, UL Standards, OSHA Regulations

SKILLS

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|---------------------|---------------------------|-------------------------------|------------------------------|
| • PLC Programming | • Technical Documentation | • Project Presentation Skills | • Testing Protocols |
| • HMI Development | • Team Collaboration | • Automation Principles | • User Interface Development |
| • Electrical Design | • Electrical Schematics | • Control Systems | • Communication Skills |
| • Troubleshooting | • Debugging Techniques | • Robotics Integration | • System Installation |

EXPERIENCE

Electrical Engineering Intern

University Research Lab 📅 June 2025 - Present 📍 Louisville, KY

Assumed an intern role in the University Research Lab focused on developing advanced automation solutions. Engaged in project design, execution, and testing efforts within a collaborative engineering environment, contributing significantly to coursework applications in practical scenarios.

- Designed and developed a PLC-based automation system enhancing material handling speed significantly.
- Collaborated with peers to deliver an intuitive HMI interface for seamless system operations.
- Conducted extensive debugging to ensure robust performance of electrical controls throughout different phases.
- Generated required project documentation including schematics that improved overall clarity and project flow.
- Supported system installations, gaining firsthand insight into real-world processes and challenges.
- Maintained proactive communication with faculty mentors to align objectives resulting in enhanced learning outcomes.

Capstone Project Developer

University of Louisville 📅 August 2024 - May 2025 📍 Louisville, KY

Directed a capstone project aimed at building a robotic prototype controlled via PLC technology, enriching understanding of machine automation principles. Led a group effort toward refining automated functions while integrating critical feedback from project evaluations.

- Led a team focused on elevating prototype capabilities through comprehensive PLC programming initiatives.
- Engaged in detailed testing cycles that informed measurements and design improvements for enhanced reliability.
- Utilized prominent software tools for simulations, bringing innovative concepts alive during showcase presentations.
- Articulated project results clearly, reinforcing collective understanding among peers and evaluators.

- Collaborated across disciplines, harmonizing efforts connected to mechanical and electronic component integration.
- Received accolades for original contributions and effective execution exemplifying academic prowess and teamwork.

LEADERSHIP & AWARDS

- Dean's List (2024, 2025)
- Engineering Student of the Year (2026)

CERTIFICATIONS

- Certified PLC Programmer 📅 2026
- Electrical Safety Certification 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Engineering Society (2024 – Present)
- Volunteer, Robotics Club (2023 – 2026)

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST