Aria Heath

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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 2026

University of Louisville GPA: 3.8 *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

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

EXPERIENCE

Electrical Engineering Intern

June 2025 - Present

University Research Lab *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

August 2024 - May 2025

University of Louisville *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