



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

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.

STRENGTHS

- 💡 **Strong Problem-Solver**
Demonstrated ability to tackle challenges effectively with innovative solutions and adjustments.
- 🗣️ **Effective Communicator**
Proven skill in delivering ideas and project updates clearly to diverse audiences and stakeholders.
- 👥 **Team-Oriented**
Regularly collaborated with fellow engineers, fostering consistency and improving project delivery outcomes.
- ✅ **Detail-Focused**
Applied attentive detail in project documentation creating transparency and efficiency standards.
- 🔄 **Adaptable Learner**
Quickly assimilated knowledge across varied subjects, unveiling insights for project benefits and adjustments.

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

- 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.

LANGUAGES

English Native

Spanish Proficient

MY CAREER



- Electrical Engineering Intern at University Research Lab (1.2 Years)
- Capstone Project Developer at University of Louisville (9 Months)

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)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST