

# Ayden Logan

## Advanced Manufacturing Automation Engineer

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### SUMMARY

Driven Advanced Manufacturing Automation Engineer with over five years of experience in creating and integrating systems for high-precision manufacturing. Proven track record of enhancing production efficiency through innovative mechanical and electrical solutions. Skilled at collaborating within cross-functional teams to improve system reliability, performance, and scalability. Once designed an automated system that significantly reduced production errors, ensuring seamless operations. Enthusiastic about continuous improvement and passionate about leveraging engineering best practices to optimize manufacturing processes and results. Open-minded and eager to contribute knowledge while learning from others.

### EXPERIENCE

#### Automation Engineer

Innovative Systems Engineering 📅 January 2022 - Present 📍 Durham, NC

As an Automation Engineer, focus on designing and implementing electromechanical systems for advanced manufacturing equipment. Lead multiple critical phases, including machine build, troubleshooting, and site commissioning. Collaborate across various engineering disciplines to enhance overall factory productivity while taking ownership of project outcomes.

- Designed complex electromechanical systems which improved production efficiency by 25%.
- Led machine builds, FAT, SAT, and commissioning across different manufacturing facilities to ensure timely implementation.
- Worked closely with interdisciplinary teams to enhance OEE and substantially reduce cycle times.
- Created technical documentation, including control logic and BOMs, ensuring adherence to industry standards.
- Performed root cause analysis to discover issues and implemented corrective measures resulting in a 15% reduction in downtime.
- Initiated Lean methodologies to accelerate process improvements and minimize waste throughout the operation.

#### Controls Engineer

Tech Innovations Inc. 📅 June 2018 - December 2021 📍 Greensboro, NC

Served as Controls Engineer, responsible for integrating machines with PLC systems, enhancing automation capabilities at production lines. Worked collaboratively to transition custom automated facilities from development through to large-scale production, contributing valuable expertise to industrial safety protocols.

- Integrated mechanical systems with advanced PLC controls and motion controllers to increase automation efficiently.
- Collaborated with operators and manufacturing teams to facilitate machinery transitions from prototype to production stages.
- Implemented ISO 13849 standards to strengthen machine safety protocols and minimize occupational risks.
- Utilized CAD tools for clear engineering designs aiding collaboration among technical teams.
- Generated detailed wiring diagrams and electrical schematics, streamlining troubleshooting processes by 20%.
- Supported ramping procedures providing essential feedback for seamless technology transfer.

#### Junior Automation Engineer

Elevate Engineering Group 📅 August 2016 - May 2018 📍 Charlotte, NC

In this role, assisted senior engineers in the design and execution of automation systems aimed at achieving greater operational efficiencies. Contributed to debugging, collaborative input on Kaizen events, and enhanced communication efforts within engineering teams.

- Contributed to the design of automation systems leading to a 10% rise in throughput.
- Supported optimization and troubleshooting of electromechanical systems which positively affected equipment uptime.
- Developed control logic for PLCs alongside senior engineers, refining interface functionality.
- Engaged actively in Kaizen projects to recommend effective process enhancements.
- Documented methodical processes and findings, aiding training for new team members.
- Dedicated to ongoing personal development of emerging technologies related to automation.

### LEADERSHIP & AWARDS

- Certified Automation Professional (CAP) - 2025
- Lean Six Sigma Green Belt - 2024

### EDUCATION

#### Bachelor's Degree in Mechanical Engineering

North Carolina State University 🎓 GPA: 3.5 📅 2016 📍 Raleigh, NC

**Coursework:** Fluid Mechanics, Thermodynamics, Dynamics, Materials Science

CERTIFICATIONS

- Certified Automation Professional 📅 2025
- Lean Six Sigma Green Belt 📅 2024

TECHNICAL SKILLS

- **Automation Technologies:** PLCs, HMIs, Servo Drives
- **Design Software:** AutoCAD, SolidWorks, MATLAB
- **Quality Assurance Tools:** FMEA, PFMEA, RCA
- **Control Systems:** PLC Logic, Motion Controllers, Electrical Schematics
- **Manufacturing Standards:** ISO 13849, OSHA Compliance, Safety Protocols
- **Continuous Improvement Methodologies:** Lean, Six Sigma, 8D Problem Solving
- **Technical Documentation:** BOMs, Wiring Diagrams, P&IDs
- **Engineering Principles:** Mechanics, Dynamics, Thermodynamics
- **Communication Platforms:** Microsoft Teams, Slack, Zoom
- **Performance Metrics:** Overall Equipment Effectiveness, Cycle Time Reduction, Quality Targets

SKILLS

- |                                    |                                 |                               |                            |
|------------------------------------|---------------------------------|-------------------------------|----------------------------|
| • PLC Programming                  | • Root Cause Analysis           | • Project Management          | • Testing Protocols        |
| • Electromechanical Systems Design | • Lean Manufacturing            | • Safety Standards Compliance | • Machine Vision           |
| • Motion Control                   | • Electrical Engineering        | • Documentation Writing       | • Process Improvement      |
| • CAD Tools (SolidWorks, AutoCAD)  | • Automated Systems Development | • System Integration          | • Collaboration Techniques |

PROFESSIONAL AFFILIATIONS

- Member of ASME International
- Active participant in local STEM outreach programs to inspire future engineers

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST