

# Maverick Thomas

## Control Systems Engineer

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### SUMMARY

Dedicated Control Systems Engineer with over 3 years of experience in PLC, automation, and controls engineering. Proven ability to maintain and troubleshoot complex automated systems across high-paced environments. Skilled in Siemens and Beckhoff PLC systems, software for analyzing equipment performance, project documentation, and minimizing downtime. Committed to delivering clear technical updates while collaborating with cross-functional maintenance teams to ensure operational excellence, safety, and efficiency. Eager to contribute strategic insights and fortify system reliability through informed decision-making and innovative solutions.

### EXPERIENCE

#### Control Systems Engineer

TechDynamics 📅 January 2023 - Present 📍 Naperville, IL

Manage PLC-controlled automation systems ensuring top-tier operational standards. Collaborate with engineering and maintenance teams to improve system reliability across multiple production lines, focus on reducing faults and downtime through structured troubleshooting and clear communication.

- Monitor operation of PLC-integrated automation systems across diverse production circuits.
- Conduct fault diagnosis and implement corrective actions for conveyor and storage operations.
- Facilitate productive relationships between engineering and operational teams through regular performance updates.
- Ensure compliance with technical documentation standards for accuracy and clarity.
- Lead training sessions for junior engineers focusing on automation protocols and effective troubleshooting techniques.
- Successfully adapt operational strategies during peak activity periods, enhancing overall productivity.

#### Automation Engineer

Automation Innovators 📅 June 2021 - December 2022 📍 Aurora, IL

Played a pivotal role in the deployment of automated solutions aimed at maximizing throughput within warehousing operations. Enhanced operational designs by diagnosing faults in material handling equipment, facilitating smoother integrations of technologies.

- Developed procedures that led to a substantial increase in efficiency associated with warehouse operations.
- Participated in root cause analysis of installation issues, significantly improving system uptime.
- Engaged with stakeholders to optimize operational performance and streamline workflow processes.
- Documented preventative measures for recurring technical challenges, thereby contributing inventive solutions.
- Assisted in equipping staff with leading-edge technology training which fostered capability acquisition.
- Supported inter-team communications delivering timely updates to enhance coordinated responses.

#### Junior Controls Engineer

RoboTech Solutions 📅 March 2020 - May 2021 📍 Schaumburg, IL

Contributed to monitoring of automated warehouse systems boosting their functional capacity. Assisted expert colleagues in resolving intricate PLC problems, enriching personal expertise and first-hand experiences in control systems.

- Conducted preliminary diagnostic assessments addressing system failures under direct supervision.
- Collaborated in crafting straightforward operational protocols which aided team delivery.
- Engaged constructively within team initiatives aimed at bolstering equipment reliability through repair methodologies.
- Utilized analytics tools supporting reporting efforts to consolidate data-driven operational improvements.
- Instrumental in achieving higher responsiveness levels during technical support phases of incidents.
- Provided support in documenting troubleshooting experiences promoting a culture of knowledge sharing.

### LEADERSHIP & AWARDS

- Received Excellence in Automation Award for outstanding contributions towards enhanced project efficiencies in 2023.
- Achieved Sustained High Performance Recognition for consistently maintaining superior system operability standards over two consecutive years.

### EDUCATION

#### Bachelor's Degree in Electrical Engineering

University of Illinois 🎓 GPA: 3.5 📅 2020 📍 Champaign, IL

**Coursework:** Circuits, Controls Systems, Automation, Mechatronics

CERTIFICATIONS

- Siemens Certified PLC Programmer 📅 2021
- Beckhoff Automation Training Certificate 📅 2022

TECHNICAL SKILLS

- **PLC Systems:** Siemens, Beckhoff, Rockwell
- **HMI Software:** WinCC, Studio 5000, Twincat
- **Network Protocols:** PROFINET, EtherCAT, Modbus
- **Data Analysis Tools:** MATLAB, Simulink, AutoCAD
- **Simulation Software:** Arena, AnyLogic, FlexSim
- **Documentation Standards:** ISO 9001, IEEE, GMP
- **Diagnostics Software:** TIA Portal, Codesys, FactoryTalk
- **Maintenance Strategies:** Lean Manufacturing, Six Sigma, TPM
- **Training Programs:** Mentorship, Peer Learning, Workshops
- **Compliance Frameworks:** OSHA, NEC, NFPA

SKILLS

- |                          |                         |                           |                                  |
|--------------------------|-------------------------|---------------------------|----------------------------------|
| • PLC Programming        | • HMI Development       | • Rapid Prototyping       | • Operations Optimization        |
| • Controls Engineering   | • Sensor Technology     | • System Integration      | • Preventive Maintenance         |
| • Automation Solutions   | • Drives/VFDs           | • Project Management      | • Cross-Functional Collaboration |
| • Troubleshooting Skills | • Industrial Networking | • Technical Documentation | • Risk Assessment                |

PROFESSIONAL AFFILIATIONS

- Member of the Society of Automation Engineers, engaging in discussions around innovations within industry practices.
- Volunteered for local STEM initiatives promoting educational opportunities in electrical and mechanical engineering.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST