

Aarav Todd

Controls Engineer

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STRENGTHS

-  **Problem Solver**
Consistently identified issues quickly, leading teams to implement effective resolutions and prevent future breakdowns.
-  **Team Collaborator**
Managed diverse teams by emphasizing communication, resulting in stronger project engagement and shared achievements.
-  **Technical Trainer**
Educated both clients and staff on complex control systems, earning respect as a go-to resource for process insights.
-  **Budget Manager**
Maintained strict adherence to project budgets guiding financial planning for enhanced resource allocation and utilization.
-  **Adaptable Learner**
Embraced ongoing learning opportunities, integrating new methodologies, tools, and technology into daily practice.

SKILLS

- PLC Programming
- HMI Development AutoCAD
- EPLAN Industrial Networking
- Project Management
- Troubleshooting Communication
- Problem-Solving
- Electrical Controls
- Machine Safety Standards Training
- Documentation Systems Design
- Commissioning Testing

SUMMARY

Dedicated Controls Engineer with over 5 years of hands-on experience in industrial automation, specializing in the design, programming, and optimization of advanced machinery and equipment. Proven expertise in PLC programming and troubleshooting, particularly on Allen-Bradley and Siemens platforms. Strong background in electrical control systems design, project management, and collaborative problem-solving within cross-functional teams. Committed to driving continuous improvements and enhancing operational efficiency for successful project executions. Eager to contribute technical skills and innovation to support new challenges.

EXPERIENCE

Controls Engineer

Tech Innovations Inc.  June 2021 - Present  Ann Arbor, MI

Manages control system projects for various industrial clients, ensuring excellence in execution and outcomes throughout all phases.

- Engineered custom automation solutions, integrating cutting-edge control technologies that significantly improved operational performance.
- Performed detailed PLC programming using Allen-Bradley systems, drawing upon industry standards for enhanced reliability and security.
- Meticulously developed precise controls documentation, including BOMs, enhancing clarity and project alignment.
- Collaborated seamlessly with project managers, effectively meeting client deadlines while maintaining quality assurance processes.
- Led system testing initiation and completed customer acceptance protocols, achieving full satisfaction with each deployment.
- Provided essential training and support to clients during installation, fostering trust and ensuring smooth transitions.

Controls Engineer

Automation Dynamics LLC  January 2018 - May 2021  Lansing, MI

Oversaw the development of efficient control systems across manufacturing applications, ensuring compliance with safety and operational standards.

- Directed the creation of comprehensive electrical systems, ensuring adherence to regulatory frameworks and engineer best practices.
- Pioneered advancements in industrial networking, utilizing EtherNet/IP to enhance data flow and communication between machines.
- Executed systematic troubleshooting for malfunctioning automated equipment, achieving commendable reductions in downtime.
- Reviewed specifications attentively, delivering customized project solutions that boosted overall client program success and satisfaction.
- Implemented strategic control enhancements reducing operational costs, showcasing commitment to continuous improvement.
- Cultivated interdepartmental collaborations, improving project efficiencies through shared resources and expertise.

LEADERSHIP & AWARDS

- Recognition for exceptional performance in project delivery, awarded Employee of the Month at Tech Innovations.
- Received an Innovator Award for introducing advanced automation methods that enhanced project efficiencies.

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Michigan  GPA: 3.7  2016  Ann Arbor, MI

LANGUAGES



MY CAREER



- Controls Engineer at Tech Innovations Inc. (5.2 Years)
- Controls Engineer at Automation Dynamics LLC (3.3 Years)

Coursework: Circuit Analysis, Control Systems, Digital Electronics, Automated Systems

CERTIFICATIONS

- Certified Automation Professional (CAP) 📅 2022
- PLC Programming Certification 📅 2021

TECHNICAL SKILLS

- **Control System Design:** AutoCAD, EPLAN, Schematics
- **PLC Platforms:** Allen-Bradley, Siemens, Schneider
- **Networking Protocols:** EtherNet/IP, DeviceNet, Modbus
- **Manufacturing Equipment:** Conveyors, Robotics, CNC Machines
- **Documentation Practices:** BOMs, Functional Specs, Project Records
- **Project Management Tools:** MS Project, Trello, JIRA
- **System Testing Techniques:** Debugging, Commissioning, Quality Assurance
- **Client Collaboration:** Requirements Gathering, Feedback Sessions, Training
- **Safety Compliance Standards:** ANSI, ISO, OSHA
- **Continuous Improvement Practices:** Lean Manufacturing, Six Sigma, Kaizen

PROFESSIONAL AFFILIATIONS

- Active member of the Society of Manufacturing Engineers, connecting with industry professionals for knowledge sharing.
- Participant in local engineering community outreach programs, promoting STEM careers among high school students.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST