



# 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

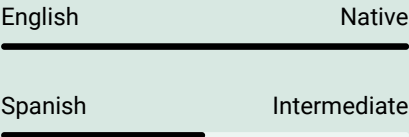
Oversaw the development of efficient control systems across manufacturing applications, ensuring compliance with safety and operational standards.

- 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.

LANGUAGES



MY CAREER



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

EDUCATION

**Bachelor's Degree in Electrical Engineering**  
University of Michigan 🎓 GPA: 3.7 📅 2016 📍 Ann Arbor, MI  
*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