

# Aarav Todd

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📍 Detroit, MI 48201

## 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** June 2021 - Present  
Tech Innovations Inc. *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** January 2018 - May 2021  
Automation Dynamics LLC *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** 2016  
University of Michigan GPA: 3.7 *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

**SKILLS**

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

**PROFESSIONAL AFFILIATIONS**

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- 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.

**LANGUAGES**

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- English (Native)
- Spanish (Intermediate)

**ADDITIONAL INFORMATION**

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

**REFERENCES**

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AVAILABLE ON REQUEST