



# Ethan Walker

## Automation Software Developer

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### SUMMARY

Dedicated Automation Software Developer with over four years of experience in industrial automation and manufacturing. Expertise lies in designing, implementing, and maintaining Distributed Control Systems (DCS) and PLC solutions through platforms like Allen Bradley, Siemens, and Omron. A proven collaborator with process engineers, delivering automation systems that align with production goals. Proficient in configuring control logic, developing operator interfaces, and managing the entire project lifecycle from design through commissioning to ongoing maintenance. Committed to troubleshooting issues swiftly while optimizing processes and analyzing operational metrics for enhanced efficiency.

### STRENGTHS

- 💡 Analytical Thinking**  
Proven analytical skills developed through addressing complex automation scenarios; consistently puzzled through challenging situations successfully.
- 👥 Effective Collaboration**  
Worked closely with cross-functional teams to create cohesive solutions; encouraged open dialogue leading to shared insights.
- ⚙️ Process Optimization**  
Deep understanding of system metrics drives enthusiasm for enhancing process efficiencies; streamlined numerous workflows.
- ✂️ Proactive Problem Solver**  
Identifying issues before they escalate has been central; prioritize systems reliability with prepared solutions.
- ✅ Attention to Detail**  
Observational skills reflect a commitment to enforcing quality standards; caught small discrepancies saving time downstream.

### SKILLS

Distributed Control Systems

PLC Programming

Technical Specifications

Data Analysis Visual Basic

Operator Interface Design

Process Engineering

### EXPERIENCE

#### Automation Software Developer

Tech Dynamics Inc. 📅 January 2022 - Present 📍 Columbus, OH

Responsible for designing and maintaining diverse process automation systems across multiple manufacturing sites.

- Partner with process engineers to develop P&ID documentation and layout specifications.
- Oversee installations, ensuring AS-BUILT documentation remains accurate throughout project timelines.
- Implement system testing protocols while leading commissioning activities for new automation systems.
- Support field technicians with hands-on troubleshooting for alarms and control logic challenges.

#### Controls Engineer

Innovatech Solutions 📅 June 2019 - December 2021 📍 Columbus, OH

Focused on enhancing DCS functionality and improving overall system performance within structured projects.

- Developed customized operator interfaces aimed at boosting user engagement during operations.
- Analyzed data analytics including pressure, temperature, flow, and valve status for system optimizations.
- Managed project scope definitions and created technical specifications supporting budget frameworks.
- Maintained compliance with quality guidelines while ensuring safety throughout all engineering processes.

#### Automation Intern

Smart Manufacturing Corp. 📅 May 2018 - May 2019 📍 Columbus, OH

Contributed to various phases of automation projects and gained firsthand experience in DCS implementations.

- Assisted with RFQ procurement processes by evaluating potential manufacturers' technical proposals.
- Supported installation teams during fieldwork and sent regular tracking updates on equipment deliveries.
- Collected operational data and monitored emerging technologies relevant to system enhancements.
- Participated in cross-functional meetings, fostering collaboration across engineering disciplines.

### PROJECTS

**Enhanced DCS Implementation** 📅 December 2023

System Commissioning

Troubleshooting

Preventive Maintenance

Quality Standards

Emerging Technologies

Procurement Support

Documentation Management

Safety Protocols

Led a project that upgraded existing distributed control systems, leading an initiative focused on expanding integration capabilities with IoT technologies. This involved redesigning interfaces and implementing advanced analytics tools, significantly streamlining operations.

### PLC Upgradation Initiative 📅 March 2024

Executed a comprehensive improvement strategy that updated traditional PLC systems within factory settings to reduce downtime, achieving near-zero interruptions during peak hours.

## LEADERSHIP & AWARDS

- Best Innovation Award at Tech Dynamics Inc. for exceptional project contributions in 2023.
- Recipient of the Excellence in Engineering Award from Ohio State University during undergraduate studies.

## EDUCATION

### Master's Degree in Engineering

Ohio State University 🎓 GPA: 3.8 📅 2025 📍 Columbus, OH

**Coursework:** *Advanced Control Systems, Automation Theory, System Optimization, Process Engineering Principles*

### Bachelor's Degree in Engineering

Ohio State University 🎓 GPA: 3.6 📅 2023 📍 Columbus, OH

**Coursework:** *Control Systems Design, Fundamentals of Electrical Engineering, Embedded Systems, Digital Logic Design*

## CERTIFICATIONS

- Certified Automation Professional (CAP) 📅 2023
- Project Management Professional (PMP) 📅 2024

## TECHNICAL SKILLS

- **Programming Languages:** Python, C++, Java
- **Control Algorithms:** PID, Fuzzy Logic, Feedforward Control
- **Automation Tools:** Allen Bradley, Siemens, Omron
- **Communication Protocols:** Modbus, EtherNet/IP, CANopen
- **Simulation Software:** MATLAB, Simulink, LabVIEW
- **Project Management Tools:** Asana, Trello, Microsoft Project
- **Version Control Systems:** Git, SVN, Bitbucket
- **Operating Systems:** Windows, Linux, Unix
- **Testing Frameworks:** JUnit, TestNG, Selenium
- **Database Technologies:** SQL Server, MySQL, MongoDB

## PROFESSIONAL AFFILIATIONS

- Member of IEEE - Institute of Electrical and Electronics Engineers for professional networking.
- Volunteered with local high school robotics clubs promoting STEM education.

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST

## LANGUAGES

English Native

Spanish Proficient

## MY CAREER



● Automation Software Developer at Tech Dynamics Inc. (4.3 Years)

● Controls Engineer at Innovatech Solutions (2.5 Years)

● Automation Intern at Smart Manufacturing Corp. (1 Years)