

# Alexei Alvarez

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## SUMMARY

Aspiring Instrumentation & Controls Designer with hands-on experience through academic projects focused on instrumentation and automation. Currently pursuing an associate's degree in Electrical Engineering Technology, gaining foundational knowledge in PLC/DCS systems and AutoCAD. Proven ability to manage multiple tasks effectively while learning under experienced professionals. Committed to advancing knowledge in process control fundamentals and instrumentation design principles that cater to industry needs.

## EDUCATION

Associate of Applied Science in Electrical Engineering Technology

2027

City College of Chicago GPA: 3.5

Chicago, IL

Coursework: PLC Fundamentals, Control Systems, Electrical Design, Technical Documentation

## TECHNICAL SKILLS

- Design Software: AutoCAD, SolidWorks, MATLAB
- Programming Languages: Python, C++, Ladder Logic
- Control Systems: PLC, DCS, SCADA
- Documentation Tools: Microsoft Word, Excel, Visio
- Testing Equipment: Multimeter, Oscilloscope, Signal Generator
- Simulation Tools: MATLAB Simulink, LabVIEW, PSCAD
- Database Management: SQL, MS Access, Oracle
- Analysis Tools: Minitab, SPSS, GraphPad
- Entry Level Software: Excel, Google Sheets, PowerPoint
- Cloud Technologies: AWS, Microsoft Azure, Google Cloud

## SKILLS

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|----------------------|-------------------------|-----------------------|---------------------|
| AutoCAD              | Technical Documentation | Troubleshooting       | Wiring Diagrams     |
| PLC/DCS Fundamentals | Team Collaboration      | Field Data Collection | Data Validation     |
| Electrical Design    | Project Management      | Report Preparation    | Mechanical Design   |
| Data Entry           | System Analysis         | Installation Details  | Collaboration Tools |

## EXPERIENCE

Instrumentation Design Intern

January 2026 - Present

University Project

Chicago, IL

- Contributed to various instrumentation projects by developing AutoCAD drawings and providing support in project documentation and design specifications. Collaborated with faculty advisors and peers on high-stakes projects emphasizing attention to detail.
- Developed AutoCAD drawings for instrumentation projects, including control panels and P&IDs, under the guidance of faculty advisors.
  - Conducted data entry for project documentation into the Instrumentation and Control Systems Database, ensuring accuracy and completeness.
  - Collaborated with a team to design mechanical installation details for various instrumentation systems.
  - Assisted in creating cable schedules and wiring diagrams for control panels, enhancing overall project workflows.
  - Participated in peer reviews of design deliverables to ensure adherence to best practices and standards.
  - Gathered field data during site visits, contributing to the practical understanding of project requirements.

Electrical Engineering Research Assistant

August 2025 - December 2025

University Project

Chicago, IL

- Supported research on PLC design and automation concepts by engaging actively with technical sessions and assisting in project deliverables, honing practical skills and real-world application understanding.
- Supported research on PLC design and process control systems, enhancing understanding of automation in industrial settings.
  - Assisted in the preparation of technical documents and installation manuals for instrumentation projects.
  - Engaged in practical lab sessions to apply theoretical knowledge of electrical systems and control methodologies.
  - Contributed to the design and testing of prototype systems, gaining insights into real-world applications of control technologies.

- Developed presentation materials for project outcomes, showcasing findings to faculty and peers.
- Collaborated with classmates on group projects, fostering teamwork and communication skills.

**LEADERSHIP & AWARDS**

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- Dean's List - City College of Chicago, Fall 2025
- Best Project Award - Electrical Engineering Capstone Showcase, Spring 2026

**CERTIFICATIONS**

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- AutoCAD Certified User 📅 2026
- Fundamentals of PLC Programming 📅 2026

**PROFESSIONAL AFFILIATIONS**

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- Member, Engineering Student Association, 2025 - Present
- Participant, Annual Robotics Competition, 2025

**LANGUAGES**

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- English (Native)
- Spanish (Proficient)

**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