

Omar Patel

Controls Engineering Intern

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SUMMARY

Motivated Electrical Engineering student, skilled in control systems and automation. Developed a smart automation prototype utilizing PLCs and collaborated on robotics systems that optimally enhanced factory operations. Proficiency in MATLAB and Simulink complemented by programming expertise in Python and Arduino. Actively engaged in problem-solving and project management, showcasing teamwork and effective communication skills throughout academic projects. Open to leverage technical knowledge in a supportive, innovative environment at TechSolutions Inc. through this internship, eager to contribute to advanced engineering solutions while gaining hands-on experience.

EDUCATION

Bachelor of Science in Electrical Engineering

University of Akron 🎓 GPA: 3.8 📅 2026 📍 Akron, OH

Coursework: Control Systems, Robotics, Automation, Data Analysis

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, Java
- **Engineering Tools:** MATLAB, Simulink, LabVIEW
- **Control Technologies:** PLCs, Sensors, Robotics Systems
- **Simulation Software:** MATLAB, Simulink, ModelSim
- **Version Control Tools:** Git, GitHub, Bitbucket
- **Project Management Tools:** Trello, Asana, JIRA
- **Communication Platforms:** Slack, Microsoft Teams, Zoom
- **Database Technologies:** SQL, MySQL, MongoDB
- **Hardware Tools:** Arduino, Raspberry Pi, Breadboard
- **Documentation Tools:** LaTeX, Microsoft Word, Google Docs

SKILLS

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|-------------------|----------------------|---------------------------|-------------------|
| • Control Systems | • Simulink | • Technical Documentation | • Problem Solving |
| • PLC Programming | • Python | • Automation | • Testing |
| • Robotics | • Arduino | • Data Analysis | • Troubleshooting |
| • MATLAB | • Team Collaboration | • Project Management | • Prototyping |

EXPERIENCE

Controls Engineering Project

University Project 📅 January 2026 - Present 📍 Akron, OH

Contributed to a project focused on developing a smart automated system aimed at optimizing industrial processes. Leveraged practical skills gained from my university studies in control systems and automation technologies. Enhanced performance reliability and team collaboration while exploring crucial engineering principles.

- Developed a prototype for a smart automation system utilizing PLCs to control industrial machinery.
- Collaborated with a team of four to design and implement a robotics system, enhancing operational efficiency by automating repetitive tasks.
- Conducted testing and troubleshooting on control circuits, ensuring system reliability and performance.
- Utilized MATLAB and Simulink for simulation and analysis of control system dynamics.
- Presented project findings to faculty and peers, demonstrating effective communication of technical concepts.
- Received positive feedback for innovative approach and problem-solving capabilities.

Robotics Capstone Project

University Project 📅 September 2025 - December 2025 📍 Akron, OH

Led efforts in designing a robotic arm for precision-based tasks within a simulated environment. Harnessed project management techniques while collaborating closely with team members to meet project deadlines and objectives.

- Led a team to design a robotic arm capable of performing precision tasks in a simulated environment.
- Programmed control algorithms using Python and Arduino, enhancing the arm's operational accuracy.
- Conducted user testing to gather data on performance and reliability, refining the system based on feedback.
- Documented project processes and outcomes, contributing to a comprehensive technical report.

- Engaged in weekly meetings to discuss project progress and collaboratively solve challenges.
- Gained practical experience in project management and team collaboration.

Control Systems Lab

Academic Research 📅 June 2025 - August 2025 📍 Akron, OH

Supported research initiatives aimed at improving adaptive control systems while collaborating with a dynamic team of students and faculty. Enhanced understanding of practical applications in real-world engineering problems.

- Assisted in research focused on adaptive control systems for dynamic processes.
- Utilized LabVIEW to develop control interfaces and collect data for analysis.
- Contributed to the development of a research paper on the findings, aiming for publication in a student engineering journal.
- Participated in lab meetings to discuss methodologies and share insights with peers.
- Implemented feedback from faculty to enhance research outcomes and methodologies.
- Fostered collaboration among team members to achieve project goals effectively.

LEADERSHIP & AWARDS

- Dean's List, University of Akron (2025)
- First Place, University Robotics Competition (2025)

CERTIFICATIONS

- MATLAB and Simulink Fundamentals 📅 2025
- Arduino Programming Basics 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, IEEE Student Chapter, University of Akron
- Volunteer, Engineering Outreach Program, University of Akron

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST