

Mikhail Hanson

Electrical Controls Engineer

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SUMMARY

Driven Electrical Engineer with hands-on experience in designing and programming control systems. Developed electrical schematics, P&IDs, and supported PLC/DCS programming. Strong problem-solving capabilities paired with excellent communication developed through teamwork in academic projects and professional roles. Eager to contribute innovative solutions in industrial automation and control engineering. Engaged in diverse environments fostering a collaborative spirit, ensuring compliance with industry standards such as NFPA and NEC codes while delivering efficient outcomes.

EXPERIENCE

Electrical Controls Engineer

Innovative Engineering Solutions Inc. 📅 June 2026 - Present 📍 Pittsburgh, PA

Hands-on role focusing on designing and engineering control systems tailored for industrial applications. Collaborates across office and field environments, providing vital input during design and commissioning stages.

- Designed and engineered electrical control systems complying with NFPA and NEC codes, ensuring operational safety and reliability.
- Supported PLC and DCS programming for automation projects, leading to improved performance and reduced downtime.
- Created and interpreted detailed electrical schematics and P&IDs, facilitating effective project documentation and understanding.
- Contributed to motor control systems and AC drive integrations that enhanced system reliability.
- Engaged in field commissioning and troubleshooting activities, resulting in streamlined startup processes and satisfied stakeholders.
- Collaborated with internal panel shop regarding control panel designs, optimizing fabrication and testing workflows.

Capstone Project Developer

University Project 📅 September 2025 - May 2026 📍 Cleveland, OH

Developed an innovative automated control system addressing sustainable energy solutions. Detailed design work laid groundwork for future projects in renewable energy.

- Engineered an automated control system incorporating foundational electrical engineering principles to promote sustainability.
- Employed AutoCAD for precision crafting of electrical schematics, enhancing clarity in design communication.
- Conducted extensive testing phases validating functionalities and aligning systems with safety regulations.
- Utilized Microsoft Office Suite for impactful documentation and presentations showcasing project progression and outcomes.
- Collaborated effectively within a team of engineers drafting comprehensive project reports detailing successes and learning points.
- Presented findings confidently to audiences of faculty and peers, refining public speaking and presentation skills.

Research Assistant

Academic Research Lab 📅 August 2024 - May 2025 📍 Cleveland, OH

Investigated innovations in industrial automation technologies supporting ongoing research projects. Shared key insights and contributed to educational objectives through solid research practices.

- Assisted on research initiatives designed to enhance industrial automation technology applications, contributing material benefits to local companies.
- Supported data gathering and analytical tasks enriching research outputs and practical implications.
- Composed technical documentation improving the fidelity of knowledge transfer among researchers and academic circles.
- Actively participated in developing presentations around research findings enhancing visibility of the team's efforts.
- Employing engineering software for simulations articulated control system potentials encouraging broader project assessments.
- Mentored junior students fostering engagement and paving pathways for academic success in complex topics.

LEADERSHIP & AWARDS

- Dean's List (2025)
- First Place in University Engineering Competition (2025)

EDUCATION

Bachelor of Science in Electrical Engineering

Cleveland State University 🎓 GPA: 3.8 📅 2026 📍 Cleveland, OH

Coursework: Control Systems, Circuit Analysis, Electronics, Power Distribution

CERTIFICATIONS

- Certified in AutoCAD Fundamentals 📅 2026
- PLC Programming Basics 📅 2026

TECHNICAL SKILLS

- **Engineering Software:** AutoCAD, Revit, MATLAB
- **Automation Systems:** PLC, HMI, SCADA
- **Project Management Tools:** Trello, Asana, JIRA
- **Documentation Standards:** NFPA, NEC, ISA
- **Analysis Tools:** MATLAB, Excel, Simulink
- **Communication Platforms:** Microsoft Teams, Zoom, Slack
- **Version Control Systems:** Git, SVN, Mercurial
- **Cloud Services:** AWS, Azure, Google Cloud
- **Simulation Software:** MATLAB Simulink, Multisim, PSCAD
- **Electronics Tools:** Oscilloscope, Multimeter, Signal Analyzers

SKILLS

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|--------------------------|---------------------------|----------------------------|-------------------|
| • Electrical Engineering | • Microsoft Office Suite | • AC Drive Integration | • Problem Solving |
| • Control Systems | • Troubleshooting | • Field Commissioning | • Teamwork |
| • AutoCAD | • Technical Documentation | • Communication Techniques | • Data Analysis |
| • PLC Programming | • Motor Control Systems | • Project Management | |

PROFESSIONAL AFFILIATIONS

- Member of the Engineering Student Association
- Volunteer for Tech for Good community outreach programs

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST