

Solomon Duncan

Electrical & Instrumentation Intern

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SUMMARY

Current Electrical Engineering student with hands-on experience in automation and instrumentation projects. Eager to learn and contribute to innovative solutions within a dynamic team environment. Demonstrated ability to apply electrical principles and safe work practices in manufacturing scenarios. Familiar with calibration methods, control systems, and standard safety requirements, including OSHA guidelines. Actively seeking opportunities to engage with real-world challenges while enhancing skills through practical application. Passionate about contributing to projects that impact both operational efficiency and safety.

EDUCATION

Bachelor's Degree in Electrical Engineering

Georgia Institute of Technology 🎓 GPA: 3.8 📅 2026 📍 Atlanta, GA

Coursework: Control Systems Design, Automation Technologies, Electrical Safety Practices, Industrial Electronics

TECHNICAL SKILLS

- **Control Systems:** Rockwell Automation, Honeywell DCS, Siemens PLCs
- **Measurement Technologies:** Pressure Sensors, Temperature Sensors, Flow Meters
- **Programming Languages:** Ladder Logic, Python, C++
- **Project Management Tools:** Trello, Asana, JIRA
- **Documentation Software:** Microsoft Word, AutoCAD, Visio
- **Simulation Software:** MATLAB, Simulink, LabVIEW
- **Electrical Testing Equipment:** Multimeters, Oscilloscopes, Signal Generators
- **Safety Standards:** OSHA Guidelines, NFPA 70E, ISO Standards
- **Collaboration Platforms:** Slack, Microsoft Teams, Zoom
- **Networking Models:** TCP/IP, UDP, Modbus

SKILLS

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|--------------------------|---------------------------|-----------------------------|-------------------------|
| • PLC Programming | • Technical Documentation | • Three-Phase Motor Control | • Analytical Techniques |
| • Electrical Safety | • Team Collaboration | • Troubleshooting Skills | • Project Management |
| • Instrument Calibration | • Calibration Methods | • Research Methods | • Software Simulation |
| • Automation Systems | • Control Systems | • Safety Protocols | • Communication Skills |

EXPERIENCE

University Project

Electrical Systems Design 📅 January 2026 - Present 📍 Atlanta, GA

Collaborated on an academic project focused on creating an automation prototype for manufacturing processes. This role involved applying technical knowledge to assist in system design, programming PLCs, and emphasizing adherence to safety protocols throughout the project.

- Designed a prototype automation system, prioritizing efficiency while adhering to safety standards.
- Utilized Rockwell Automation PLCs for control logic development, impacting overall process optimization.
- Conducted safety assessments, fostering a culture of safety awareness among team members.
- Calibrated sensors (pressure and temperature), significantly improving system accuracy and reliability.
- Created thorough documentation for operational procedures to guide future reference and implementation.
- Presented findings to peers and faculty, gaining appreciation for clarity and practical innovations.

Academic Research

Instrumentation and Controls Lab 📅 September 2025 - December 2025 📍 Atlanta, GA

Supported advanced research into analytical measurement methodologies, enhancing understanding of instrumentation technologies. Engagement involved experimenting with equipment configuration and interpretation methodologies while collaborating with faculty on publications.

- Researched advanced instrumentation technologies focused on measuring pH and conductivity with precision.
- Interpreted complex electrical schematics and applied three-phase motor controls to experimental setups.
- Participated in supervised experiments evaluating equipment performance and adhering to rigorous safety protocols.
- Analyzed diverse data sets leading to improved calibration methods and enhanced research insights.

- Collaborated with academics to draft research papers presented at conferences, sharing valuable findings.
- Joined weekly safety training focusing on best laboratory practices, strengthening compliance and security.

Hackathon Project

Automation Solutions Team 📅 March 2026 📍 Atlanta, GA

Engaged in intensive teamwork during a competitive hackathon aimed at addressing automation challenges in industrial applications. Developed practical solutions under tight deadlines while learning collaborative problem-solving techniques.

- Developed a simulation software for a control system utilizing Honeywell distributed control automation.
- Worked cohesively with a team, solving intricate technical problems effectively amidst high-stress conditions.
- Optimized system performance based on feedback from competitive judges, demonstrating adaptability.
- Presented final solutions to a panel, receiving accolades for creativity and functional design.
- Enhanced collaboration and project management skills, mastering how to meet deadlines in demanding environments.
- Absorbed mentorship, refining problem-solving strategies and embracing peer critiques.

LEADERSHIP & AWARDS

- Dean's List, Georgia Institute of Technology (2025)
- First Place, University Engineering Competition (2026)

CERTIFICATIONS

- OSHA 10-Hour General Industry Certification 📅 2026
- Rockwell Automation Certified Associate 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, IEEE Student Chapter
- Volunteer, Local Robotics Club

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST