

Kingston Thompson

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SUMMARY

Detail-oriented engineering student with hands-on experience in automation and control engineering through academic projects. Strong foundation in PLC and SCADA technologies boosts skills in system integration, troubleshooting, and effective documentation. Committed to applying theoretical knowledge practically enhances system performance and reliability. Collaborated effectively in team environments while gaining practical exposure in software development for control systems, thanks to diverse teamwork experiences over multiple projects. Excited to leverage this expertise at Innovative Tech Solutions, contributing to both learning and project success with a customer-first mindset.

EDUCATION

Bachelor's Degree in Electrical Engineering

2026

University of South Carolina GPA: 3.8

Columbia, SC

Coursework: Control Systems, Automation, PLC Programming, SCADA Systems

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, Java
- **Control Systems Software:** Wonderware, Ignition, Siemens TIA Portal
- **Design Tools:** AutoCAD, MATLAB, LabVIEW
- **Hardware Interface Tools:** Arduino, Raspberry Pi, PLC Units
- **Database Technologies:** MySQL, SQLite, MongoDB
- **Networking Technologies:** TCP/IP, RS-232, Modbus
- **Testing Methodologies:** Unit Testing, System Testing, Regression Testing
- **Development Methodologies:** Agile, Waterfall, V-Model
- **Version Control Systems:** Git, GitHub, Bitbucket
- **Security Standards:** ISO/IEC 27001, NIST, GDPR

SKILLS

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|--------------------------|---------------------------|------------------------|---------------------------|
| • PLC Programming | • Troubleshooting | • Control Systems | • Communication Protocols |
| • SCADA Systems | • Technical Documentation | • Data Acquisition | • Vector Calculus |
| • Automation Engineering | • MATLAB | • Real-Time Monitoring | • Project Management |
| • System Integration | • AutoCAD | • Software Development | • Ladder Logic |

EXPERIENCE

PLC Systems Developer

September 2025 - May 2026

University Project

Columbia, SC

Role focused on the creation of a prototype PLC system aimed at monitoring and controlling industrial power equipment. Engaged in real-world testing and integration exercises providing valuable experience in automated systems.

- Developed a prototype PLC system improving operational efficiency by 15%.
- Collaborated with peers to create software for real-time data acquisition employing ladder logic programming.
- Executed comprehensive system integration tests achieving a 100% success rate in validation.
- Documented workflows, design specifications, and user manuals for future reference enhancing knowledge transfer.
- Presented findings at the university expo, receiving constructive feedback from faculty and industry experts.
- Utilized tools such as AutoCAD and MATLAB within the design and simulation process.

SCADA System Analyst

January 2025 - June 2025

University Project

Columbia, SC

Engaged in developing an advanced SCADA application intended for overseeing environmental conditions, delivering troubleshooting support while configuring protocols between SCADA and PLC.

- Contributed significantly towards building a SCADA software application monitoring variable environmental factors.
- Assisted in vital configuration measures ensuring compatibility and effective communication between various device protocols.
- Participated actively in resolving system connectivity challenges reducing operational downtime through proactive solutions.

- Developed extensive documentation covering operational procedures along with maintenance guidelines fostering usability.
- Partnered with faculty for refining the SCADA system based on user insights ensuring enhanced performance.
- Leveraged software technologies including Wonderware and Ignition directed at executing SCADA developments.

LEADERSHIP & AWARDS

- Dean's List, University of South Carolina, 2025
- First Place, University Engineering Hackathon, 2025

CERTIFICATIONS

- PLC Programming Fundamentals 📅 2026
- SCADA Systems and Applications 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association, 2024 – Present
- Volunteer, Local Robotics Club, 2025 – Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST