

Ngoc Ballard

System Automation Engineer Intern

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SUMMARY

Enthusiastic Electrical Engineering student seeking to contribute to system automation projects. Engaged in academic settings, gaining hands-on experience with SCADA systems and network configurations. Strong programming skills in Python and C++, fortified by collaborative team experiences. Committed to developing technical documentation and addressing real-world engineering challenges alongside knowledgeable professionals. Passionate about system reliability and infrastructure improvement, excited to apply analytical thinking across multi-disciplinary teams and make tangible contributions to vital engineering initiatives. Eager to enhance operational efficiencies through proactive problem-solving and effective communications.

EDUCATION

Bachelor's Degree in Electrical Engineering

California State University, Sacramento 🎓 GPA: 3.8 📅 2027 📍 Sacramento, CA

Coursework: Power Systems, Control Systems, Circuit Analysis, Digital Logic Design

TECHNICAL SKILLS

- **Programming Languages:** Python, C++
- **SCADA Tools:** Ignition, Wonderware, GE iFix
- **Networking Protocols:** DNP3, IEC 61850, Modbus
- **Data Analysis Tools:** MATLAB, Excel, R
- **Project Management Tools:** Trello, JIRA, Asana
- **Documentation Standards:** IEEE Standards, Company Policies, Technical Manuals
- **Collaboration Software:** Slack, Microsoft Teams, Google Workspace
- **Simulation Software:** Simulink, PSS/E, PSCAD
- **Operating Systems:** Windows, Linux, MacOS
- **Cloud Platforms:** AWS, Azure, Google Cloud

SKILLS

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|---------------------------|------------------------|------------------------|--------------------------|
| • SCADA Systems | • Data Analysis | • Communication Skills | • Problem-Solving |
| • Programming (Python) | • C++ Programming | • Project Management | • Automation Engineering |
| • Network Configuration | • Energy Efficiency | • Simulation Modeling | • Software Development |
| • Technical Documentation | • Reliability Analysis | • Collaboration | |

EXPERIENCE

System Automation Engineering Intern

University Project 📅 June 2026 - Present 📍 Remote

Contributed as a System Automation Engineering Intern focused on enhancing system reliability and automation requirements for energy distribution. Collaborated closely with peers to tackle SCADA deficiencies and optimize operational processes.

- Identified SCADA deficiencies, improving operational reliability across multiple projects.
- Developed comprehensive SCADA topology models ensuring required solutions were implemented correctly.
- Programmed Remote Terminal Units (RTUs), which facilitated troubleshooting efforts to maintain seamless operations.
- Issued IP and DNP addresses for integrated devices, streamlining communication capabilities in local substations.
- Fostered relationships with vendors during training sessions for new remote access applications.
- Engaged in project meetings, contributing insights from site evaluations to inform decision-making.

Electrical Engineering Research Assistant

Academic Research 📅 September 2025 - May 2026 📍 Sacramento, CA

Served as a research assistant within the Electrical Engineering department, focusing on enhancing energy efficiency in automation systems and analyzing capacity demands of electrical grids. Contributed to comprehensive studies and documentation for academic advancements.

- Researched energy efficiency potentials within automation, culminating in conference presentations.
- Built simulation models analyzing capacity demand affecting reliability of grid systems.
- Drafted technical reports supporting the research team's findings, refining documentation skills.
- Collaborated with peers to enhance teamwork dynamics while co-developing engineering solutions.

- Leveraged programming expertise for data assessment tools improving research efficacy.

Team Member

Hackathon Project 📅 April 2025 📍 Sacramento, CA

Actively participated in a focused hackathon event, marking achievements in developing innovative prototypes connecting energy monitoring with existing SCADA technologies. Contributed to multidisciplinary tasks showcasing versatility and collaboration.

- Conceived a prototype merging energy monitoring techniques with SCADA functionalities.
- Designed user interfaces and orchestrated backend programming for effective integration.
- Worked in concert with diverse teams delivering vital components under time constraints.
- Presented solutions highlighting practical applications observed during competitive demonstrations.

LEADERSHIP & AWARDS

- Dean’s List, California State University, Sacramento (2024-2026)
- First Place, University Engineering Challenge (2025)

CERTIFICATIONS

- Certified SCADA Technician 📅 2026
- AWS Certified Solutions Architect – Associate 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, IEEE Student Chapter, California State University, Sacramento (2024-Present)
- Volunteer, Engineering Outreach Program (2025-Present)

LANGUAGES

- English (Native) • Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST