

Andrei Clarke

PLC-Scada Engineer

☎ (512) 555-1234 ✉ andrei.clarke@example.com 🔗 linkedin.com/in/andreiclarke 📍 Austin, TX, 73301

SUMMARY

Detail-oriented PLC-Scada Engineer with over three years' experience in industrial automation and control systems. Seasoned at designing, testing, and supporting automation systems alongside human-machine interface solutions. Strong organizational skills complement interpersonal communication, fostering collaboration within teams and with clients. Focused on continuous learning while managing technical risks effectively. Proven track record of defining system design specifications, driving project initiatives that cultivate innovation, and ensuring successful deployment of complex SCADA systems.

EXPERIENCE

PLC-Scada Engineer

TechFlow Dynamics 📅 January 2024 - Present 📍 Houston, TX

Current role as a PLC-Scada Engineer overseeing the development and integration of automation solutions. Responsibility includes collaborating with cross-functional teams to align technical efforts to strategic goals.

- Developed SCADA systems for diverse industrial applications, enhancing operational efficiency through streamlined processes.
- Programmed PLCs for automation tasks, ensuring seamless integration with existing infrastructures and adherence to industry standards.
- Conducted thorough testing and validation of solutions, proactively identifying risks and elevating system reliability across platforms.
- Collaborated on defining system specifications and documenting design processes, improving clarity for stakeholders in project execution.
- Provided comprehensive technical support and crafted training materials for clients, nurturing long-term relationships with positive feedback.
- Led innovative project initiatives, building ownership among team members and securing timely completion of high-impact projects.

Junior PLC Engineer

Automation Experts Inc. 📅 June 2021 - December 2023 📍 Dallas, TX

Served as Junior PLC Engineer responsible for assisting senior engineers in the design and execution of automation systems. Developed foundational skills in troubleshooting, documentation, and client engagement.

- Supported design and development of PLC programming within automation systems for manufacturing process improvement.
- Assisted in troubleshooting and resolving issues, verifying system performance effectively led to increased uptime.
- Contributed to detailed documentation of design specs, establishing quality standards for project deliverables.
- Engaged consistently in educational initiatives, staying updated on cutting-edge technologies relevant to key project areas.
- Interacted directly with clients to clarify technical requirements and adapt solutions accordingly, strengthening project success rates.
- Implemented rigorous quality control during system testing phases, confirming compliance with specifications and regulations.

LEADERSHIP & AWARDS

- Achieved recognition for outstanding performance in engineering projects at TechFlow Dynamics.
- Won 'Best Team' award during collaborative initiative focused on innovative automation solutions at Automation Experts Inc.

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Texas at Austin 🎓 GPA: 3.6 📅 2021 📍 Austin, TX

Coursework: Control Systems, Signal Processing, Circuit Design, Industrial Automation

CERTIFICATIONS

- Certified Automation Professional (CAP) 📅 2023
- AWS Certified Solutions Architect 📅 2023

TECHNICAL SKILLS

- **Programming Languages:** Ladder Logic, Python, C++
- **SCADA Tools:** Wonderware, Ignition, WinCC
- **Development Methodologies:** Agile, Waterfall, Scrum
- **Communication Tools:** Slack, Microsoft Teams, Zoom
- **Project Management Tools:** Trello, Asana, JIRA
- **Design Software:** AutoCAD, SolidWorks, Visio
- **Testing Frameworks:** Selenium, TestRail, Jenkins

- **Networking Protocols:** TCP/IP, Modbus, Ethernet/IP
- **Database Management:** SQL Server, MySQL, Oracle
- **Operating Systems:** Windows, Linux, MacOS

SKILLS

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|------------------------|-------------------------------|----------------------------|----------------------------|
| • PLC Programming | • System Design | • HMI Development | • Testing Strategies |
| • SCADA Systems | • Interpersonal Communication | • Risk Management | • Performance Optimization |
| • Automation Solutions | • Project Management | • Documentation Management | • Compliance Standards |
| • Technical Support | • Controls Engineering | • Troubleshooting | |

PROFESSIONAL AFFILIATIONS

- Active member of the International Society of Automation promoting advanced technology adoption.
- Part of the local IEEE chapter engaged in webinars and community outreach focused on electrical engineering.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST