STRENGTHS

Collaboration
Facilitated effective teamwork across departments, blending unique skills towards common goals.

Problem-Solving
Quickly assessed intricate system issues, deriving actionable solutions under time constraints.

Technical Aptitude
Proficient in SCADA and DCS technologies, bridging theory with practical application seamlessly.

Adaptability
Embraced unfamiliar challenges in dynamic work conditions, adjusting methodologies professionally.

Innovation
Conceived novel approaches to control system design, driving process efficiency through creativity.

SKILLS

SCADA Systems | HMI Design | PLC Programming | Control Logic | P&ID Interpretation | Troubleshooting | Data Visualization | Team Collaboration | Alarm Configuration | Testing Protocols | Process Automation

Rhea Farooq

Advanced Process Chemical SCADA Engineer

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SUMMARY

Engineer with a strong foundation in SCADA systems brings hands-on experience in designing, configuring, and maintaining control architectures for semiconductor manufacturing. Collaborated across teams to problem-solve system performance in both office and field environments. Developed user-friendly HMI displays and structured alarm strategies to enhance operational safety. Known for optimizing workflows that improve efficiency and decrease downtime in complex environments. Eager to contribute engineering expertise at TechnoSolutions Corp., ensuring superior process requirements are met in high-tech settings.

EDUCATION

Bachelor of Science in Electrical Engineering

Arizona State University GPA: 3.8 2026 Tempe, AZ

Coursework: *Control Systems, Automation, Circuit Design, Systems Theory*

TECHNICAL SKILLS

- **SCADA Systems:** Emerson DeltaV, Wonderware, Ignition
- **Communication Protocols:** Modbus, OPC, Ethernet
- **Programming Languages:** Structured Text, Ladder Logic, C/C++
- **Simulation Tools:** MATLAB, Simulink, LabVIEW
- **Data Analysis Software:** Microsoft Excel, Tableau, SQL
- **Testing Frameworks:** TDS, LDT, RTD
- **Alarm Management Systems:** Zenon, PI Vision, DataHub
- **Documentation Tools:** MS Word, LaTeX, Confluence
- **Project Management Tools:** Asana, Trello, JIRA
- **Development Methodologies:** Agile, Waterfall, V-Model

EXPERIENCE

SCADA System Developer

University Project January 2025 - May 2026 Tempe, AZ

Focused on developing a prototype SCADA system for a university research project aimed at automation within the chemical manufacturing process. Led efforts in configuring HMI graphics and refining control parameters. Experience also includes testing protocols to ensure compliance and optimize outputs.

- Developed an innovative SCADA system prototype demonstrating key functionalities for chemical processes.
- Configured HMI displays enhancing interaction and visualization for operators, improving user experience significantly.
- Created and managed system tags aligned with P&ID drawings that ensured accurate workflow progression.
- Implemented operational logic using DeltaV function blocks simulating realistic operations effectively.
- Conducted thorough testing to validate system integrity against stringent safety standards.
- Collaborated within a diverse team to share findings, presenting detailed metrics and project outcomes to faculty.

Control Systems Research Assistant

Academic Research August 2024 - December 2024 Tempe, AZ

Contributed as a research assistant focused on PLC integrations and their implications within SCADA frameworks. Activities involved ladder logic programming and alarming configurations to mitigate false positives in operation.

Industrial Communication

System Management

Operational Reporting

Integration Strategies

LANGUAGES

English — Native

Spanish — Intermediate

MY CAREER

- SCADA System Developer at University Project (1.3 Years)
- Control Systems Research Assistant at Academic Research (4 Months)

- Investigated PLC integration principles applying practical knowledge to an academic setting.
- Supported configuration strategies aimed at minimizing false alarms in controlled experiments.
- Performed loop checks and validation tests ensuring operational reliability was consistently met.
- Documented findings meticulously and shared optimizations at annual symposiums, showcasing advanced understanding.
- Utilized simulation tools to assess constructed models, refining theories to elevate future project applications.
- Engaged with faculty facilitating extended discussion groups enhancing project visibility and relevance.

LEADERSHIP & AWARDS

- Dean's List, Arizona State University, Fall 2023, Spring 2024
- First Place, University Engineering Hackathon, 2025

CERTIFICATIONS

- Certified SCADA Engineer 2025
- PLC Programming Fundamentals 2025

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association, Arizona State University
- Volunteer, STEM Outreach Program for High School Students

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST