

Rahul Norris

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SUMMARY

Instrument Control Technician with four years of field experience supporting water production and water reclamation systems. Maintains, troubleshoots, calibrates, and repairs SCADA, electrical controls, instrumentation, control cabinets, MCCs, VFDs, PLC connected devices, transmitters, and **motor operated valves**. Uses electrical drawings, as built, technical manuals, SOPs, DMM, **Megger insulation tester**, HART communication tools, and Rockwell software to isolate faults and restore reliable operation. Documents preventive and **corrective maintenance** in CMMS with clear findings, test results, attachments, and follow up actions. Communicates practical technical guidance with operators, vendors, customers, and junior support personnel. Holds an **Associate of Applied Science** in Instrumentation and Controls Technology, a valid Arizona driver's license, and Rockwell Automation PLC Fundamentals certification.

EXPERIENCE

Instrument Control Technician

May 2024 - Present

Sonoran Process Controls

Phoenix, AZ

Supports municipal water and wastewater facilities through field maintenance, SCADA troubleshooting, instrumentation calibration, electrical testing, and work coordination. Leads planned tasks, documents asset conditions, and escalates higher impact issues with clear technical findings.

- Maintained **SCADA** assets and field signals, restoring dependable process visibility across municipal water facilities.
- Executed **preventive maintenance** on **control cabinets**, MCCs, VFDs, transmitters, PLC devices, and MOVs.
- Traced **4–20 mA** level and flow loops with **DMM** readings, isolating wiring and signal faults.
- Calibrated **instrumentation** with HART tools, documenting as found and as left conditions for review.
- Tested insulation with a Megger, coordinating significant electrical concerns with operations and vendors.
- Directed helpers during planned maintenance, reinforcing SOP use, safe work, and clear records.

Controls Maintenance Technician

March 2023 - April 2024

Copper Basin Water Technologies

Tempe, AZ

Maintained controls and instrumentation for water treatment and reclamation processes. Combined Rockwell PLC review, electrical print interpretation, field testing, CMMS documentation, and customer communication to resolve equipment problems safely.

- Maintained control panels, **VFD** driven equipment, transmitters, and process devices supporting treatment operations.
- Used **Rockwell software** to review **PLC** status, separating field input faults from sequence issues.
- Performed point to point checks from electrical prints, identifying terminal and wiring problems.
- Created CMMS **work orders** with test results, repair notes, equipment details, and supporting records.
- Verified security, **surveillance**, and **chemical treatment controls**, routing specialized failures for resolution.
- Explained equipment status and repair implications to operators during planned and unplanned work.

Instrumentation Technician I

October 2022 - February 2023

Red Rock Utility Services

Glendale, AZ

Completed supervised field maintenance assignments across water process instrumentation and electrical controls. Built practical capability in drawings, measurement, CMMS records, equipment inspection, SOPs, and safe utility facility access.

- Performed supervised **preventive maintenance** on water process **instrumentation** and electrical controls during facility assignments.
- Checked transmitters with DMM measurements, comparing readings against expected ranges for repair decisions.
- Read **electrical drawings** and manuals to locate terminals and follow approved troubleshooting sequences.
- Entered daily activity, parts, observations, and completion status into **CMMS** for maintenance continuity.
- Inspected **control cabinets**, MCCs, and VFDs, escalating measurable abnormalities for advanced diagnosis.
- Built safe field habits through equipment inspections, tool use, **SOPs**, and call back activities.

PROJECTS

Water Process Instrumentation Reliability 📅 2022

Improved field device reliability through calibration checks, 4–20 mA signal tracing, electrical testing, and clear maintenance records across water process equipment.

SCADA Control Asset Maintenance 📅 2023

Connected PLC status review, Rockwell software, electrical drawings, and CMMS documentation to support dependable control system maintenance.

LEADERSHIP & AWARDS

- Recognized by maintenance leadership for dependable documentation and clear escalation of significant electrical findings.
- Selected to direct helpers and newer technicians during planned control and instrumentation maintenance tasks.
- Earned Rockwell Automation PLC Fundamentals Certificate after focused study of PLC status and control concepts.

EDUCATION

Associate of Applied Science in Instrumentation and Controls Technology 2022
Estrella Mountain Community College GPA: 4.0 Avondale, Arizona
Coursework: Industrial instrumentation, electrical controls, programmable logic controllers, process measurement

CERTIFICATIONS

- Rockwell Automation PLC Fundamentals Certificate 2023
- Valid Arizona Driver's License 2022

TECHNICAL SKILLS

- **SCADA Systems:** SCADA, control system diagnostics, process visibility
- **Industrial Controls:** Control cabinets, MCCs, VFDs
- **Instrumentation:** LIT, FIT, MOV
- **PLC Systems:** PLC, Rockwell software, control logic
- **Electrical Testing:** DMM, Megger, electrical test equipment
- **Signal Systems:** 4–20 mA, level signals, flow signals
- **Calibration Tools:** HART communication, calibration, as found testing
- **Maintenance Systems:** CMMS, work orders, maintenance attachments
- **Technical Documents:** Electrical drawings, as built, SOPs
- **Utility Processes:** Water production, water reclamation, wastewater systems
- **Security Controls:** Security systems, surveillance, closed circuit television
- **Chemical Controls:** Chemical treatment controls, process controls, device status

SKILLS

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|-----------------------|--------------------------|---------------------|-----------------------|
| • SCADA | • Water Reclamation | • CMMS | • VFD |
| • Instrumentation | • Wastewater Systems | • Rockwell Software | • Calibration |
| • Electrical Controls | • Preventive Maintenance | • PLC | • Electrical Drawings |
| • Water Production | • Corrective Maintenance | • MCC | |

PROFESSIONAL AFFILIATIONS

- Water Environment Federation, relationship building through shared water operations and maintenance practices.
- International Society of Automation, continued connection with instrumentation and control professionals.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST