



Rahul Norris

Instrument Control Technician

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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

Sonoran Process Controls 📅 May 2024 - Present 📍 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

Copper Basin Water Technologies 📅 March 2023 - April 2024 📍 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

Red Rock Utility Services 📅 October 2022 - February 2023 📍 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.

STRENGTHS



Field Troubleshooting

Traced difficult 4–20 mA faults from instruments through terminals and controls. Operators received clear next steps.



Control Calibration

Used HART tools and test equipment to verify readings. Accurate as left records supported confident operations decisions.



Technical Reading

Turned electrical prints, as built, and manuals into practical field checks. Teams gained a reliable troubleshooting path.



Maintenance Records

Recorded findings, attachments, and follow up actions in CMMS. Later work started with useful history, not guesswork.



Team Coordination

Directed helpers during planned work and shared concise findings with operators. Complex tasks moved forward with fewer handoffs.

SKILLS

SCADA Instrumentation

Electrical Controls

Water Production

Water Reclamation

Wastewater Systems

Preventive Maintenance

Corrective Maintenance CMMS

[Rockwell Software](#) [PLC](#) [MCC](#)

[VFD](#) [Calibration](#)

[Electrical Drawings](#)

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



● Instrument Control Technician at Sonoran Process Controls (2.3 Years)

● Controls Maintenance Technician at Copper Basin Water Technologies (1.1 Years)

● Instrumentation Technician I at Red Rock Utility Services (4 Months)

- 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

Estrella Mountain Community College 🎓 GPA: 4.0 📅 2022 📍 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

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.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST