

# KANWAR ABDUL REHMAN

## Instrumentation & Control Engineer

Faisalabad, Pakistan — +92 337 991 7733 — ranakanwarkhan@gmail.com

 [linkedin.com/in/kanwar-abdul-rehman-b5330b253](https://linkedin.com/in/kanwar-abdul-rehman-b5330b253)

### PROFILE SUMMARY

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Instrumentation & Control Engineer with practical experience in **industrial process control, field instrumentation, PLC/DCS systems, and equipment maintenance**. Skilled in calibration, loop testing, troubleshooting, and control system coordination between field devices and control rooms. Familiar with **safety interlocks, shutdown logic**, and compliance practices based on **IEC 61508 and SIL classification**. Strong focus on reliable operation, documentation accuracy, and safe plant performance.

### PROFESSIONAL EXPERIENCE

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#### Sitara Chemical Industries Ltd., Faisalabad

##### Trainee I & C Engineer — Coal-Fired Power Plant

Sep 2025 – Present

- Assisted in **commissioning and tuning of control loops**, integrating field transmitters with the DCS for stable process operation.
- Performed **loop checking, signal mapping, and logic verification**.
- Configured and validated **control valves, SOVs, MOVs, and positioners**.
- Participated in **interlock testing, shutdown, and startup sequences**.
- Contributed to calibration and performance verification of turbine control elements including **DEH control, Woodward 505, and Bently Nevada 3500 vibration monitoring**.
- Maintained **ISO-compliant documentation**.

##### Trainee I & C Engineer — Chlor-Alkali Plant

Feb 2025 – Aug 2025

- Supported **process control and automation** activities.
- Assisted in **PLC/DCS configuration** and basic **PID tuning**.
- Commissioned and verified analog/digital signals between field transmitters and HMI/SCADA systems.
- Contributed to commissioning of **17kA Rectifier** and integration of a **100A Polarizer**.
- Prepared **SOPs, calibration records, and loop documentation**.

#### Sitara Chemical Industries Ltd. (SCIL), Faisalabad

##### Intern — Power Plant Operations

Jul 2023 – Aug 2023

- Observed control room operations and field coordination.

- Learned fundamentals of **loop integrity, control logic, and interlock practices**.

## CORE TECHNICAL SKILLS

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- **Instrumentation:** Control Valves, MOVs, SOVs, Thermocouples, Flow/Level/Pressure Transmitters
- **Vibration Monitoring:** Bently Nevada 3500 Rack, Keyphasor, Proximity Probes, DE/NE, Casing Vibration Analysis
- **Automation & Control:** PLC Programming (Siemens S7, Mitsubishi FX3U), DCS Programming (SUPCON JX-300XP, HollySys HOLLiAS MAC), SCADA/HMI Development, Control Logic Testing, Loop Tuning
- **Drives & Control Panels:** ABB VFDs, HMI Configuration, Field Panel Wiring & Signal Routing
- **Functional Safety:** IEC 61508 Compliance, SIL Classification & Interlock/Shutdown Logic Practices (SIS)
- **Documentation:** ISO 9001/14001 Compliance, Calibration Sheets, Maintenance Logs, SOPs

## EDUCATION

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**Pakistan Institute of Engineering and Applied Sciences (PIEAS), Islamabad**

2024

B.Sc. Electrical Engineering

Relevant Courses: Embedded Systems, Microprocessors, FPGA Design, Computational Intelligence

## CERTIFICATIONS

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- Google Project Management Specialization (Coursera)
- McKinsey Forward Learning Program — Future Skills (Industry 4.0)
- Leadership in 21st Century Organizations — (Coursera)
- Excel Skills For Business — (Coursera)
- ChatGPT Prompt Engineering For Developers — (Coursera)

## ACHIEVEMENTS

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- Successfully supported **turbine startup & shutdown vibration diagnostic checks**.
- Played a key role in **commissioning Bently Nevada 3500 vibration monitoring system**.
- Assisted in **17kA Rectifier and 100A Polarizer commissioning**.

## Languages & Soft Skills

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**Languages:** English (Professional), Urdu (Native), Punjabi (Native)

**Soft Skills:** Team Collaboration, Problem Solving, Technical Documentation, Communication, Adaptability, Time Management, Attention to Detail, Safety Awareness, Critical Thinking

## References

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Available upon request.