

# Trehan Consultants Pvt. Ltd

**Sangbaz Sohail**  
**Automation Engineer**  
**11 Years Experience (6 Years in Gulf)**  
**Bachelor of Technology**  
**Electronics & Instrumentation**

Male, Indian, 35 years, married, English, Hindi, Arabic, Bengali, Urdu

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About **Eleven years experience** in Oil Gas, Chemical, Steel, Water Treatment & Production Field in the field of Automation in Installation, Commissioning & Maintenance of Control Panel & Desk (DCS, PLC, SCADA, HMI, MMI, & DRIVES), Vibration Monitoring System, Electrical & Electronics Field Instruments (Sensor & Actuator)

## Work Experience

1. Organization: **Thermax (O & M) Limited.** January, 2017 – Till Now  
Designation: **Sr.Instrumentation Engineer**

### Work Profile:

- Provided technical support to maintenance and operations department. Investigate incidents and failure of SCADA & Automation System, field instruments and recommend changes.
- Responsible for assessing the effectiveness of working practices and systems intending to improve operations, personal and team performance continuously.
- Assist in the field during plant start-ups, shutdowns.
- Provide troubleshooting assistance.
- Discipline leadership regarding best practice, unconventional yet safe, proper and fit for purpose engineering and thinking outside the conventional box to achieve cost-effective approaches.
- Achievement of targets and initiatives assigned to the Instrumentation function.
- Contribute to all safety design processes including HAZAN, HAZOP, SIL Classification, Safety Lifecycle.
- Hands on Experience of PLCs (Siemens, Schneider, Wonderware, GE Fanuc), RTUs, SCADA (Vijeo Citect7.0/Schneider, WINCC/Siemens, IFIX/GE), Industrial Networks (radio, wired).
- Knowledgeable with ISA Standards and other international standards for instrumentation and control.
- Working Knowledge of DCS / PLC based system and Field Instrumentation. Familiar with PC based design software for sizing of instruments Preparation of requisition and procurement of instruments and control system.
- Attend Factory Acceptance Tests (FAT's) and Site Acceptance Tests (SAT's) for electrical equipment (or equipment with significant electrical content) on assigned projects.
- Ability to perform programming, check out and troubleshooting functions for programmable logic controllers (PLC's), primarily manufactured by Seimens, Bradley and General Electric.

2. Organization: **SKF Vibration Monitoring System, Kuwait** March, 2015 – Dec, 2016  
Through **Trans W General Trading and Contracting Company, Kuwait.**  
Designation: **Project Engineer Instrumentation**

### Work Profile:

- Provided technical support to maintenance and operations department. Investigate incidents and failure of field instruments and recommend changes.

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- Support designing, installation and commissioning for new projects.
- Develop the maintenance schedules, estimate labor, and material cost, design the specifications of material required for preventive, corrective and breakdown maintenance of the plant using SAP maintenance, planning and material modules.
- Experience in Commissioning, Installation & Technical Services of SKF Online Vibration Monitoring System.
- Worked on SKF Multilog On-line System IMx-M, SKF @ptitude Monitoring Suite, Eddy current probe and accelerometers system (CMSS 68 Eddy current probe, CMSS 668 or CMSS 668P Driver, CMSS 958 Extension cable, accelerometers CMSS 2100).
- SKF Multilog On-line System IMx-M 19 inch rack enclosure including backplane [CMON 2007], SKF Multilog On-line System IMx-M machine protection I / O module including terminal card (maximum four) [CMON 2102], SKF Multilog On-line System IMx-M Condition monitoring processing (CPU) module (maximum four) [CMON 2103], SKF Multilog On-line System IMx-M machine protection relay module (maximum three) [CMON 2109], SKF Multilog On-line System IMx-M power supply unit (maximum two) [CMON 2202].

### Project Handled:

- **Ministry of Electricity and Water- Shuaibha South Power Station**
- **Kuwait National Petroleum Company(KNPC)**

3. Organization: **MARAFIQ** July, 2012 – Dec. 2014  
(**Power and Water Utility Company for Jubail and Yanbu**), K.S.A  
Through MPP (Man Power Partner) with **Zamil O & M Co. Ltd.**

Designation: **SCADA Engineer-Automation**

### Work Profile:

- Installation, commissioning and testing of SCADA System Project to meet the Department Objectives and thereby giving the contribution to Corporate Missions.
- Experience and good understanding in areas of system automation level such as PLC testing and interfacing with the field devices like drives, sensors, & soft starters.
- Hands-on Experience PLCs (Siemens, Schneider, Wonderware, GE Fanuc), RTUs, SCADA (Vijeo Citect7.0/Schneider, WINCC/Siemens, IFIX/GE), Industrial Networks (radio, wired).
- Integration of control hardware with the system software application includes clear concepts of PLC/DCS system-level architecture including the client-server technology.
- Have worked closely with end-customer for analyzing and deriving configuration inputs (Like PID, Loop Diagrams, etc.) to the SCADA and DCS system.
- Analyzing and able to resolve a problem and complete detailed reports, methodically produce the steps.
- Close coordination with other entity and third-party contractor for the proper execution of the project and other related works that concern in my area of responsibilities.
- Providing Technical Support for the new projects as per the instructions of Unit Manager.
- Providing Technical Support for the up gradation of DCS System (ABB System 800) as per the instructions of Unit Manager.
- Providing Technical Support for the up gradation of LCP (Local control Panel) of the Water Treatment Plant. Replacement of control panel of through relay logic to PLC (Siemens S300/S400).
- Able to manage the defect database under the guidance of senior QA, QC engineers and also support in the automation test procedures.
- Have a clear understanding of how protocols works, field bus communications.
- Proactive in any challenges and participate inspection of new project acceptance turnover and joint inspection with the client and other entities.

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- Develop proposals and packages for system modifications and up gradations to improve the product quality.
- Develop the maintenance schedules, estimate labor, and material cost, design the specifications of material required for preventive, corrective and breakdown maintenance of the plant using SAP maintenance, planning and material modules.
- Monitoring the actual execution of work and generating SAP reports for actual work progress.
- Ensuring ISO 9001-2000 and ISO 14001 (EMS) quality system and MARAFIQ safety procedures are followed during the duration of work.
- Assign field jobs for maintenance, modification, up gradation and new installations to department employees and evaluate the job quality and performance.
- Supervising the project design for all construction contracts including sea water expansion project to meet the sea water cooling forecast demand.
- Review of contractor's technical submittals for new materials, drawings, design calculations and specifications for new equipment or system up gradation, for conformity with technical provisions of the contracts and resolve the field engineering problems.
- Technical evaluations of materials files, inspections of delivered material as per job requirements.
- Conduct periodic safety awareness meetings as per PTWC procedures.

### Project Handled:

- **Sea Water Cooling System**, Jubail, K.S.A
- **Portable Water RO 1&2**, Jubail, K.S.A
- **Industrial Waste Water Treatment Plant(IWTP#8)** , Jubail, K.S.A
- **Sanitary Waste Water Treatment Plant (SWTP#9)**, Jubail, K.S.A

4. Organization: **Larsen & Toubro Limited**  
Designation: **Sr. Engineer**

May, 2010 – June 2012

### Work Profile:

- Involved in the review of P&ID, Instrument Index, datasheets, sizing of mass flow meters, PLC I/O list, PLC Architecture diagram, logic diagrams, hook-up drawings, Cable & Conduit schedule, Conduit Layout, working hour & cost estimation, etc. of various projects.
- Provided all technical aspects of DCS engineering problems in the plant and their resolutions.
- Engineered, implemented, and maintained supporting applications for process control applications.
- Designed, engineered, installed and commissioned control system using DCS for large process industries like refineries, petrochemicals, power, and oil & gas.
- Involved in the Detailed Engineering for Diesel Dryer System of M/s.Technovaccum for DHDS plant of Essar Oil Ltd., Jamnagar, Gujrat, India.
- Involved in the review of PLC Architecture diagram, logic diagrams and field Instrumentation of Barauni Refinery (Indian Oil).
- Conceptual & Preliminary engineering done for Dove soap making & Neat soap dosing scheme up gradation of Unilever, India.
- Basic & Detailed Engineering of Electrical, Field Instrumentation, C&A, and Documentation.
- Experienced in basic engineering of Gas, Chemical & Oil project.
- Experienced in engineering services of Food Industry for General Mill.
- Expertise in Basic & detailed engineering activities of electrical, instrumentation & automation.
- Generation of Piping & Instrumentation Diagram (P&IDs), Instrument Index, Instrument

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Specifications, Wiring Diagram, Loop Drawing, Hook-Ups, Instruments selection, control scheme, process control philosophy, logic preparation, instrument & electrical cabling, layout, and automation system configuration, etc.

- Knowledge of Smart Plant P&ID, IN tools, Inventor, HYSYS.
- Mechanical System (MEMS) sensors & actuators using ANSYS/Multiphysics simulation package.

5. Organization: **Saudi Binladin Group, KSA.**  
Designation: **Instrumentation Engineer**

Feb,2009 – April, 2010

### Work Profile:

- Develop, maintain and continuously improve the preventative/predictive maintenance programs for electronics & instrumentation utilization and distribution equipment across the site.
- Electronics equipment like UPS, ECB (Electronics Control Board), FM200, Fire Fighting System troubleshooting and small project design.
- Scheduling of Preventive Maintenance (weekly, monthly, quarterly and yearly).
- Scheduling of Corrective Maintenance.
- Maintenance of BMS System (Building Management System) i.e Schneider Electrical
- Maintenance of control systems, heating systems, BMS(Building Management System), MCC's, EMCP, 400hz Frequency Drives, VFD's, ELP, etc.
- Assist in the development, continuous improvement and execution of the Electronic Infrastructure improvement programs.
- Handled the electrical equipment like the generator (1600 kVA), Transformer, DP, RMU, LP, etc.
- Maintains and troubleshooting of the cooling system.

### Project Handled:

- **King Abdulaziz International Airport, Hajj Terminal, Jeddah, K.S.A**

6. Organization: **Alfatech System Pvt. Ltd Pune.**  
(Authorized System Integrator of **Schneider Electrical Pvt. Ltd.**)  
Designation: **Project Engineer**

July, 2007 – Jan., 2009

### Work Profile:

- Experience in the field of Automation in Installation, Commissioning & Technical Services of Control Panel, Control Desk & Field instruments in Petrochemicals and Iron Rolling mill, Thermex Line, Cooling Bed, and Cooling Tower as Commissioning Engineer.
- Capable of Pre-commissioning and Commissioning of PLC Panel, DC/AC Drive Panel, Control Desk, Main Incomer/Tie Feeder Panel, MCC Panel, Header Board and Control Desk, etc.
- Worked on PLC Premium, TSX Micro, Quantum, Momentum, Ultra Compact, Atrium, Twido, Zelio, Digital DC Drive, Digital AC Drive (Altivar with different configuration), PLC Software (PL7), Master-Slave Communication between PLC (as Master) & Drive (as Slave) through MODBUS/PROFIBUS Communication, Communication between PLC & its remote I/O through MODBUS/PROFIBUS, RS 232, RS 485 etc.
- Expertise in carrying out the installation of a wide variety of Sensors as per Engineering Drawing. Some of them are Motor Shaft Encoder (Kulber, Hubner), Proximity Sensor (ifm), Hot Metal Detector (Delta), Pyrometer (Delta), Loop Scanner (Delta), Limit Switch, Pressure switch, Thermocouple, RTD, Thermistor, Thermostat, etc.
- Capable of Configuration & Calibration of PID Controller, I/P Converter, Temperature Controller as well as Final Control Elements like AC/DC Solenoid & Motorized Control Valve.
- Able to troubleshoot the Industrial Faults efficiently & can make/modify the digital as well as analog loops for better system Control as per requirement.

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### Project Handled:

- **Shree Bajrang Metallics & Power Ltd., Raipur**, Chattishgarh, India.
- **Shri Khatu Shyam Industries**, Silvassa, Maharashtra, India.
- **Dina Mahabir Re-Rollers Pvt. Ltd.**, Patna, Bihar, India.
- **Deepak Fertiliser & Petrochemicals Corpn Ltd.**, Pune, India
- **Manali Petrochemical Ltd. Manali,Chennai**, India
- **Kiloskar Pneumatic Ltd., M.I.D.C**, Pune, Maharashtra, India.
- **Bhuwalka Steels Ltd.**, Wada, Maharashtra, India.

### Educational Qualification

- Bachelor of Technology (B.Tech.) in Electronics & Instrumentation Engineering from West Bengal University of Technology, India with 7.17 CGPA in 2007.

### Training Profile

- **SKF Online Vibration Monitoring System Training Program**, Which includes SKF Multilog On-line System IMx-M, programming through SKF @plitude Monitoring Suite given by **SKF Abu Dhabi, Kuwait and Kolkata.**
- **Marafiq Training Program**, Which includes **SCADA & HMI** programming through **Vijeo Citect Software** given by **IICS, ALKHOBAR, KSA.**
- **Marafiq Training Program**, Which includes **Motorola RTUs, Wonderware Intouch & Field Instruments** given by **A. ABUNAYYAN TRADING CORP., ALKHOBAR, KSA.**
- Three weeks **Vocational Training** in Electronics & Instrumentation in **Durgapur Steel Plant**
- **ISA-CIAT** Training Program, which includes **PLCs, MMI, SCADA & AC Drives.**
- A study in **Distributed Control System(DCS) & Operation of Blast Furnace** in **Durgapur Steel Plant.**

### Computer Knowledge

- Working Knowledge of **SAP PM Enduser, Maximo5**, MS-Office, MS-Excel & Internet.

### Extracurricular Activity

- Passed NCC "A" certificate examination.
- Participated in school/college level Essay, Debate & quiz competition.
- Participated in different programs of sport in school as well as in college.
- Participated in blood donation camp for blood bank of N.B. Medical College, INDIA.

### Personal Detail

- Name Sangbaz Sohail
- Father's Name Md Sohail Ahmad, WBCS (Retd.)
- Date of Birth 4<sup>th</sup> April. 1983.
- Sex/Marital Status Male/Married.
- Nationality Indian
- Passport No Z3214927
- Place of Issue Patna, India
- Date of Issue 21.05.2015
- Date of Expire 20.05.2025

### Driving Licenses Detail: For Kingdom of Saudi Arabia

- Driving Licenses No: 8894765/Expire Date: 23.02.2023

(Sangbaz Sohail)