

Muhammad Zaid Younus

Telecommunication Engineer

QA/QC – Telecommunication Inspector (Aramco Approved)



Present Address: Al Dawadmi, Saudi Arabia
Contact: 00966-53-4299328, 00966-58-2898781
Marital Status: Married
Driving License: Active - KSA
Date of Birth: October 17, 1983
E-mail: thezaid@gmail.com
Skype: thezaidy

Education

- B.E. (Electronics), Hamdard University, Karachi, Pakistan. (December 2010)
- Intermediate, Board of Intermediate Education Karachi.
- Matriculation, Board of Secondary Education Karachi.

Engineering Council Registration

Engineering Degree has been registered in **Pakistan Engineering Council** and **Saudi Council of Engineers**.

Objective

To pursue a career in a reputable, dynamic and growth-oriented organization that provides opportunities for personal growth and development for bachelors of Telecommunications, Electronics and Instrumentation.

Academic Achievements, Certifications & Computer Languages

- During my studies, I've created many mini projects like Variable Power supplies, Antennas and multiple kinds of simple circuits. In the final year; as my Final year project I created a **Microcontroller based Robot** which was well appreciated by the Institution and the visiting delegates from various industries. Some of the certifications and languages I did during my studies are
- CCNA-Industry Exam preparation from Cisco certified Institution.
- Microcontroller programming (Basic Knowledge).
- PLC programming (Basic Knowledge).
- C++ (Basic Knowledge).
- Autocad (Basic Knowledge).
- Microsoft Office (Professional Knowledge).
- Adobe Photoshop (Professional Knowledge).

Experience (over 09 Years)

Worked in **Saudi Arabia** with Saudi Aramco in Pipelines Facilities (Gas Transportation) in the field of Electrical & Instrumentation and Telecommunication and in Pakistan worked with various organizations in Telecom sector, pipeline facilities, and Oil Rigs for Installations and Troubleshooting related to the field of Telecommunications, Electrical, and Instrumentation as referred below.

A) **QA/QC Telecommunications Inspector** (Feb 2020 to Date)

Saudi Aramco Project: Master Gas System -2, Package-2 (BI-10-01810-003),
With **Arkad Engineering and Construction Co.**, near Aramco Pump Station # 6,
Saudi Arabia

Responsibilities included.

As QA/QC Communication Inspector at above mentioned project, my activities now are to prepare Method Statements, monitoring and inspection before, during and after the Installation of all Telecommunication equipment and Fiber Optic Cable as per IFC Drawings, Designs and under the strict followings of Saudi Aramco Engineering Standards (SAES) and Material System Specifications (SAMSS) including all but not limited to the activities as follows.

- Monitoring the Installation of 24-core Single Mode Fiber Optic Cable parallel to the newly Installed 46" EWQG-1 Pipeline, included but not limited to the installation of EMS Markers, Marker Posts, splice points and Optipads.
- Monitoring the Providing the communication link between the Leak Detection System (LDS), Cathodic Protection (CP) System and Industrial Telephone between remote Terminal Units (RTUs) present at various Locations at the newly installed Sales Gas Pipeline using Open Transport Network (OTN) and providing connectivity to DCS and SCADA at the monitoring station of Saudi Aramco OSPAS OCC using Fiber Optic Cable (FOC). Connectivity will be provided between Communications Building @ Pump Station # 06 and Metering Building @ Qassim Scrapper Receiver and OSPAS.
- Providing communication between Intelligent Electronics System (IED) and Power System Automation.
- Hands-on experience of creating Instrument loop drawings, P&IDs, Interconnection wiring diagrams for Electrical system in newly installed Junction Boxes, RTUs and LDS cabinets.
- Creating the Loop Folder
- Material Receiving
- Raising RFI's in QMIS following SATIP, SAIC and SATR
- Surveillance of all site activities on Weekly/Daily basis and maintaining the logbook entry
- Issuing Internal Proactive Notifications and NCR's to construction department if there is any violation of Saudi Aramco Engineering Standard
- Close coordination and providing an update to SAPID and SAPMT during all activities performed at the site
- Making sure that construction is performing all activities adhering to the Saudi Aramco Engineering Standard related to Electrical, Instrumentation and Communication maintaining and meeting the Safety and Quality requirements at all the time before, during and after the work is done
- Have a strong awareness of the Scope of Work and all locations of the project related requirements. The Scope of work at this project includes but not limited to the installation of the following Telecommunication Equipment in existing and newly installed RTU shelters and Communication Buildings at different locations.
 - OTN, RTU, LDS, Industrial Analog Telephone, Different types of ADC and ACD, FOC to Ethernet and Serial to Ethernet DIN Rail converters, Ethernet Switch and Fiber patch panel.
 - Installation of 12-core Multimode Fiber Optic Cable.

B) QA/QC Telecommunications Inspector

(Nov 2016 to Feb 2020)

Saudi Aramco Project: Fadhili Downstream Pipeline Project (BI-10-01904)With **Arkad Engineering and Construction Co.**, Khobar, Saudi Arabia**Responsibilities included.**

- Monitoring the Providing the communication link between the Leak Detection System (LDS), Cathodic Protection (CP) System and Industrial Telephone between remote Terminal Units (RTUs) present at various Locations at the newly installed Sales Gas Pipeline using Open Transport Network (OTN) and providing connectivity to DCS and SCADA at the monitoring station of Saudi Aramco OSPAS OCC using Fiber Optic Cable (FOC). Connectivity was provided between Fadhili Gas Plant, Wasit Gas Plant, Pump Station-1 and OSPAS and then performed the testing of whole ring Network successfully.
- Providing communication between Intelligent Electronics System (IED) and Power System Automation.
- Hands-on experience of creating Instrument loop drawings, P&IDs, Interconnection wiring diagrams for Electrical system in newly installed Junction Boxes, RTUs and LDS cabinets.
- Creating the Loop Folder
- Material Receiving
- Raising RFI's in QMIS following SATIP, SAIC and SATR
- Surveillance of all site activities on Weekly/Daily basis and maintaining the logbook entry
- Issuing Internal Proactive Notifications and NCR's to construction department if there is any violation of Saudi Aramco Engineering Standard
- Close coordination and providing an update to SAPID and SAPMT during all activities performed at the site
- Making sure that construction is performing all activities adhering to the Saudi Aramco Engineering Standard related to Electrical, Instrumentation and Communication maintaining and meeting the Safety and Quality requirements at all the time before, during and after the work is done
- Have a strong awareness of the Scope of Work and all locations of the project related requirements. The Scope of work at this project includes but not limited to the installation of the following Telecommunication Equipment in existing and newly installed RTU shelters at different locations.
 - OTN, RTU, LDS, Industrial Analog Telephone, Different types of ADC and ACD, FOC to Ethernet and Serial to Ethernet DIN Rail converters, Ethernet Switch and Fiber patch panel.
 - Installation of 12-core Multimode Fiber Optic Cable.

C) Instrument Engineer – QC

(May 2014 to July 2016)

Saudi Aramco Project: Install Pipeline Instrument Scraping Facilities (BI-10-00006)With **Gulf Consolidated Contractors Company**, Dammam, Saudi Arabia**Responsibilities included.**

- Ensure the implementation of the Quality Management System by QC Inspection group according to requirements of ISO 9001:2008 at the project
- Responsible for arranging and monitoring the Calibration, Bench Testing and Installation according to the E&I IFC drawings, Specifications, Codes and Standards of different Instruments including Relief Valves, Pressure/Temperature Instruments and MOV's with proper calibration certificates in my custody.
- Assist QC department in the development, implementation and review of PQPs, ITPs, Procedures, work instructions, checklists, quality records, method statements, quality submittals, loop packages etc. with PID and PMT for compliance with good work practices and

the company's contractual obligations and in resolving any discrepancies and ambiguities. Monitor and ensure all work is correctly prepared prior to any inspection being undertaken and after inspection review all reports for compliance and are accurate and that all attached documents are in accordance with method statements.

- Assist QC department and PID in monitoring Factory Acceptance Test (FAT) including but not limited to Visual & Dimensional, Functional Testing for Process control equipment's (Panels, Instruments etc.), Electrical equipment's (Switchgear, MCC, Lighting and Small power DBs etc.) at Manufacturers / Vendor premises during manufacturing and before release for shipment.
- If any NCR is raised by PID/PMT on the identification of nonconformities; I assist QC responsible to monitor the effectiveness of Corrective actions and ensure necessary actions are taken to avoid recurrence, including expediting any corrective actions and the closeout of the NCR's.
- Coordinate with the PID/PMT as well as QC departments for the resolution of site problems and to ensure that communications exist and are maintained.
- Witnessed Installation and Testing of ICCP (Impressed Current Cathodic Protection) and GSCP (Galvanic/ Sacrificial Cathodic Protection) systems on Above-Ground and Under-Ground Pipelines.
- Responsible for standardized installation of Anodes, Electrodes, Test Posts, Grounding cell, Surge Diverters, D.C / negative cables, Pin Brazing / Thermite / Cad welding, Junction Boxes, Rectifiers etc.
- Monitor routine CP testing (Testing of Test Posts, Insulated joints, pipe / anode potential, soil resistivity test, holiday test, Natural potential survey, Interference & Mitigation survey) and Swing Potential test, DCVG (Direct Current Voltage Gradient) and CIP (Close interval Potential) surveys after activation of ICCP system throughout the pipeline. Observe the calibration status of all measuring and testing equipment.
- Carried-out Scheduled & Surveillance Inspections for FOC laying/blowing, Splicing / Termination, Routing, Marking, OTDR Testing, Power Source Testing

Along with above-mentioned duties; I was supervising the ongoing installation of a communication system for newly built ARAMCO PMT office which includes internet, telephones and other activities to provide fully equipped communications to the said client when resigned from the company.

D) Communication Quality Engineer

(September, 2012 to April, 2014)

With **Comstar ISA**, Karachi, Pakistan

Responsibilities Included.

- Calibration of different types of instruments.
- Installation, configuration and commissioning of countrywide networks using different WAN/LAN solution.
- Installation & troubleshooting of HUGHES systems with YahSat, SCPC and iDirect VSAT systems working on Ka, Ku and C bands across countrywide.
- Perform LOS Surveys for Radio and VSAT Installations.
- Customer support services for link monitoring and troubleshooting.
- Installation and maintenance of VSAT center using 1.2, 1.8 & 2.4-meter dish antennae.
- Extensive traveling to remote areas of Pakistan for VSAT connectivity of different clients.
- Coordination with other departments during the implementation of customer projects.
- Involved in various RF equipment troubleshooting at the client-side.
- Involved with Customer Support for providing a solution regarding RF links.
- Some of the equipment in which I have gained expertise is Ubiquiti (Rocket M, NanoBridge, Nanostaion M, PS5, and PS2), OS Gemini Bridge, AFAR Bridge, Ultima Bridges, Motorola (Orthogon) Bridge, μ bridge and Satellite Modems (Datum PSM4900, iDirect and SCPC).

E) QC Engineer

(January, 2011 to September, 2012)

With M/S. **Al Razi Associates**, Karachi, Pakistan

Responsibilities Included:

- Monitor and maintain the data and monitor the status of all machines
- Read and interpret wiring diagrams, mechanical drawings, and specifications in making installations or performing major repair work.
- Responsible in installation, repair, service, troubleshooting, calibrate, a functional test of flow/pressure/temperature/level transmitters, control valves, safety relief valves, MOVs, transducers, temperature element (RTD), thermocouples, sensors, load cell, vibration probe's and monitor in order to maintain continues production.
- Make periodic preventative maintenance inspections of all metering control instruments, diagnosing existing or potential trouble; cleaning, lubrication, calibration and adjustments as conditions indicate.
- Identify instruments faults and submit requests and requisitions for technical modifications, introduce changes to improve and correct faulty instruments and control systems.
- Perform scheduled preventive maintenance of process control system, smoke and gas detection and alarming system, and various instruments.