

Muhammad Faisal Talib

Industrial Electronics Engineer



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CAREER OBJECTIVE:

To pursue a challenging and progressive career to excel in Industrial Electronics Engineering and to attain a sound position in a Professional organization and work enthusiastically in team to achieve personal and organizational goals with devotion and hard work.

ACADEMIC QUALIFICATIONS

B.E Industrial Electronics 2017-2020

Institute of Industrial Electronics Engineering (IIEE)PCSIR/NEDUET, Karachi.

Intermediate (Pre-Engg) 2014-2016

Govt.Postgraduate College of science, Faisalabad.

Matriculation (Science) 2012-14

Govt.Tariq Islamia High School, Faisalabad.

SKILLS AND EXPERTISE:

- Logics & Graphics building in Yokogawa DCS Centum VP R6.08 Software.
- Siemens PLC, and HMI with programming language Ladder and STL
- Industrial Process control, RTD, thermistor, thermocouple, gauge pressure, pressure measuring devices feed-back sensors
- Feedback control, feedforward control.
- Process flow diagram (PFD), Process and instrument diagram, loop diagram (P & ID),
- MATLAB and Simulink simulations.
- IOT with wireless LoRa Communication.
- Proteus, Multisim.
- MS Office (Word, Excel, Outlook, PowerPoint,)
- Knowledge and ability to use computers and related technology efficiently.

EXTRA CURRICULAR ACTIVITIES:

- Sports (Cricket, Football)
- Cooking
- Newspaper Reading

LANGUAGE SKILLS:

Multilingual and Clear understanding of following language.

- English
- Urdu

EXPERIENCE:

Enertech Pakistan | Yokogawa

Jul 12,2021 to Continue...



Instrumentation & Control Engineer (I&C)

Projects:

Polish oil and Gas Company (POGC)

Ghani Gases Limited

Pak Arab Fertilizers Pvt Ltd (Fatima Group)

- Site Commissioning of complete Automation System Included ICSS, Filed Instrumentation and valves at an Oil & Gas Production facility.
- Designed system and network architecture, control and marshaling cabinets.
- Distributed Control Systems to develop and promote technical solutions to support the sales team.
- Develop DCS hardware design specification.
- Supervise the Field termination of instruments wiring in marshaling cabinets. (DI/DO & AI/AO).
- Graphics building in Yokogawa DCS Centum VP R6.08 Software.
- Supervise the Installation of DCS & ESD system Yokogawa, loop testing, configuration of Modbus's, Ethernet.
- Loop testing of field Instruments (Flow, Level, pressure Transmitter)
- During FAT, SAT part of team, Control Documentations.

Engro Coal Power Plant Thar

- Commissioning of Siemens PLC S7-1200
- **Purpose Siemens PLC Historian Server with client PC.**
- Customer Handling, working as team lead for OTDR test of multicore fiber optic Cable.

Ghulam Muhammad Sons: Dec 1,2020 to Jun 30,2021

Service Engineer

Job responsibilities:

- Basic Troubleshooting, Instrumentation, Maintenance, and Repair on designated Equipment
- Perform PCB design testing and analyze test results
- Test electronic components on a circuit board
- Maintaining tools and test equipment and ensuring they are properly calibrated

Clients and their Departments

Quality Control (QC), Quality Assurance (QA), Research & development (R&D) and production labs of different pharmaceutical companies, i.e. Getz Pharma, Indus Pharma, SAMI Pharma, gsk pharma Searle Pharma, Aspin Pharma, Brookes Pharma etc.

INTERNSHIP:

Gul Ahmed Textile Mill Limited Karachi. 27/09/2019 – 26/10/2019

- PCB repairs, Test different Electronics components, Study of P&ID diagrams technical aspects of maintenance
- Study the processes involved for the manufacturing of textile.



FINAL YEAR PROJECT(FYP):

IOT based Long Range Smart Energy Meter with Load Management features (Using LoRa Communication).

- **Using** LoRa Communication to connect all the meter within 1-8 km range to a single wi-fi network.
- **Disabling** Loads Priority wise, So that even the major shortage user can use most important Loads.

MINI PROJECTS:

- **Control of pneumatic based marking machine through PLC:**
To understand and develop the ladder logic, interfacing of electro-Pneumatic components with PLC
- **Handling of Analog, I/O Channels in PLC:**
Understand the working of analog I/O channels in PLC, develop a logic for electric heating tank
- **Develop the logic for pallet shifting table through SR and RS Flip flop:**
Designed and simulate the ladder logic and check the results in real time
- **Implementing IOT dashboards in web applications:**
Extensive development of IOT dashboards and widgets and implementing them in PHP Laravel based website.