HABIB-UR-REHMAN

Senior Engineer (I&C)



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PROFILE

Career Summary

Seeking a job within my field of study and Experience in Electrical, Instrumentation & Control, with over Extensive Project exposure in undertaking Testing, Commissioning, Operation & Maintenance & Troubleshooting of different Electrical & Control systems, Review ITPs / Commissioning procedures, preparation of technical specifications, evaluation of tenderdocuments, design review and performance testing / analysis of thermal power plants & Oil Gas projects

INTERNATIONAL EXPOSURE & TECHNICAL SKILLS

- **International Experience in Belfort France, Hangzhou China, Shanghai, Chengdu China**
- **Attended detailed design review meetings (DDRM) with SEPCO-III held in Hangzhou, China**

- **Caspoc (Power Electronics and Electrical Drives Modeling and Simulation Software)**
- **Electronic Work Bench EWB**
- **MS Office (2013 & 2016)**
- **emu8086**
- **AutoCAD**
- **MATLAB**

EDUCATION

BSc Electronic Engineering (2008 – 2012)
(PEC Reg. # ELECTRO/17388)
NFC Institute of Engineering & Technology, Multan, Pakistan.
Curriculum Grade: 3.61 CGPA

Final Year Project

PLC based Monitoring & Intelligent Control of Induction Motor

Intermediate level Technical education

Diploma of Associate Engineer (DAE) in Electronics (2000 – 2003)
Multan Swedish Institute of Technology (MSIT), Multan.

Matriculation with science
Multan Day High School, Multan.

PROFESSIONAL EXPERIENCE / KEY RESPONSIBILITIES

National Engineering Services - NESPAK **(Dec 2013 – Dec 2021)**
Senior Engineer (Instrument & Control)

➢ **1180MW CCPP Bhikki Power Plant, Sheikhupura** **(Jan 2019 - Dec 2021)**

- Review all outstanding & plant performance related punch items which were generated during DLP, and conduct daily basis meeting with the EPC & Client in order to resolve these punch items in accordance with mutually agreed settlement
- Attend Inspection Requests (IR's) as submitted by the Contractor and take appropriate action in a timely manner
- Support quality of works and ensure the safety at site including health and environmental issues, ensuring compliance with contractual specifications and safety & health risk assessments
- Prepare Non Conformance Reports (NCR) for deficiencies of work found at site
- Ensure effective co-ordination between disciplines related works and all other disciplines
- Providing technical input and experiences to resolve any discipline related issues on site that may arise
- Participation in FAT, SAT, commissioning, pre-commissioning of various Electrical & Control Systems

- Supervise logic/interlock testing of PLC (Siemens S3 & S7, Allen Bradley) from soft logic (simulation) as well as testing from field instruments
- As part of team member, witness the power plant Performance Test (PT) for Simple cycle & Combined Cycle as per ASME PTC22, ISO 2314 and ASME PTC46
- Responsible for all Instrument, Control and electrical works such as HVAC, Firefighting, ELV, LV and MV installations, Fire Alarm, CCTV and UPS systems
- Coordinate for the preparation of As-Built
- Excellent knowledge of electrical power feeder, distribution systems, grounding, conditioned and standby power systems, surge protection and equipment

PROJECT: PPIC3 (Punjab Police Integrated Command and Control Center) (Jul 2018 - Jan 2019)
Senior Project Engineer (Testing & Commissioning)

- Supervised SAT (site acceptance test) to approve the installation of traffic sites as per provided design & SOP which included Power Cube of traffic management systems of the following:
- IPNV CCTV system
- RLMS (Red light Monitoring System)
- JTMS (Journey Time Monitoring System)
- VMS (Variable Message Signs) and Pedestrian safety signs

PROJECT: 1180 MW CCPP Bhikki Power Plant, Sheikhupura (Jan 2017 - Jul 2018)
Senior Engineer (I&C)

The project comprised installation of 02 Gas Turbines (GE H-class), 02 HRSGs (Hangzhou boiler) and 01 Steam Turbine (GE Alstom) with total Capacity of 1180MW (gross). As Senior Engineer (I&C), was responsible for;

- Supervise/ Monitor Pre-commissioning, Cold & Hot Commissioning activities of GE world largest Gas Turbine 9HA.01 and its Mark-VIe & Mark-VIeS Control System as per Contract specifications, Vendor Manuals and Approved Drawings
- Hardware, Software, Simulation and loop testing for DCS system Emerson Delta V, OVATION as per Approved drawings
- Supervise cold & hot commissioning of the plant fire extinguishing system MX200 - MINIMAX USA
- Review Method Statement and Inspection & Test Plan of Plant Instrumentation & Control system
- Provide technical advice and assistance to the construction team to support development of installation, commissioning and close out of projects in time
- Coordination with clients / third party, in accordance with approved ITP, for agreed witness inspections & tests

PROJECT: 1230MW CCPP Haveli Bahadur Shah (Mar 2016 - Jan 2017)
Junior Engineer (I&C)

The project comprised installation of 02 Gas Turbines (GE H-class), 02 HRSGs (Alstom boiler) and 01 Steam Turbine (GE Alstom) with total Capacity of 1230MW (gross). As Junior Engineer, was responsible for;

- Preparation of standard technical specifications for the Electrical and Control Systems and Bidding documents
- Pre & Post-Bid Clarification & Evaluation
- Basic and Detailed drawing review (DDR) of various I&C system of power plant

PROJECT: 425 MW CCPP Nandipur Power Plant, Gujranwala (Dec 2013 - Mar 2016)
Junior Engineer (I&C)

The project comprised installation of 03 Gas Turbines (GE frame 9E), 03 HRSGs and 01 Steam Turbine (Dong-ang Turbine Group) with total Capacityof 425MW (gross). As Junior Engineer, was responsible for;

- Basic and Detailed design Review of various system of the power plant
- Reviewed plant Control system Drawing/Documents and BOPs related P&IDs
- Supervised Erection, Pre-commissioning and Commissioning of GE Frame 9E gas turbine, Mark -VIe Control System for Gas Turbine as per Contract specifications, Vendor Manuals and Approved Drawings
- Hardware, Software, simulation and loop testing for DCS GE OC4000
- Supervised commissioning of the plant of FM200 fire extinguishing system - NOTIFIER by Honeywell
- Participated in Pre-commissioning and Commissioning activities like Loop Testing & Functional Testing of Frame 9e GE Gas Turbine, PLC (Allen Bradley & RSLogix 5000 - Rockwell Automation) and Functional Testing of Transmitters and Switches
- Investigating problems and resolving issues related to Material, Engineering, Design and other issues
- Co-ordination with contractor/sub-contractors, employer and vendor representative (TA) and resolving issues with them
- Generates Non Conformity Report (NCR) for any unconformity findings during project site inspection

UCH POWER LIMITED with Albario Engineering **(Nov 2012 – Dec 2013)**
Project Engineer (E&I)

The project comprised installation of 03 Gas Turbines (GE frame 9E), 03 HRSGs and 01 Steam Turbine (GE) with total Capacity of 586MW (gross). As Project Engineer (E&I), was responsible for;

- Supervise/witness the Installation, Testing & Commissioning of I&C System for Power block Equipment & BOP, as per the Contract specifications ,Vendor Manuals and Approved Drawings
- Control & make coordination with contractors related to Instrumentation Scope from Warehouse prior to be hooked up at site as per system sequence & priority
- Supervise/Witness the calibration of different kind of transmitters, analyzers, gauges and switches at plant site
- Cold & Hot loops testing of different kind of pressure transmitters
- Daily basis report writing and submitted to project manager

MOL Pakistan Oil and Gas Co. B.V. **(July 2011 – Sep 2011)**
Internee Engineer

- Calibration of Pressure, Temperature and flow Transmitters, Gauges / Indicators, IR Detectors and CCTV Camera
- Take daily reports of GCs (Gas Chromatograph), flow computers and flow meters
- Perform monthly JMC (Joint Meter Calibration) with the client and check calibrations of all metering instruments
- Supervised loop testing of individual plant instruments and Functional Group Tests of Allen Bradley PLC
- Perform daily maintenance activities on plant and valve assemblies

WAPDA Engineering Academy Faisalabad **(July 2010 – Aug 2010)**
Graduate Engineer

- Class room based training/lectures on Gas Turbine simulator, Combined Cycle Power Plant CCPP simulator
- Worked with M&T (Meter & Testing) lab engineers for single phase and three phase meter testing

SH Electronics Corporation **(Aug 2003 – Dec 2007)**
Associate Engineer (Projects)

- Undertake/Perform the Installation, Testing and Commissioning of PLC's/DCS system in various Power Plants and Factories
- Perform the Cold loops, Hot Loops & Energizing/Functional tests of PLC's and DCS

PROFESSIONAL MEMBERSHIP

- Registered with Pakistan Engineering Council as Registered Engineer - Reg. No. ELECTRO/17388
- Professional membership for International Association of Engineers - Member No. 131220

GOALS & INTERNATIONAL TRAININGS

- Successfully completed "INDUSTRY 4.0" course with 06 (six) modules organized by United Nation IDO, Vienna Austria
- Participated in "Safety Integrity Level (SIL) Studies using VAIL-PHA" held by VELOSI International
- Wrote technical paper on "Current Status of Development and Demands in Automation" for Institute of Automation Shandong Academy of Sciences, China-------2013
- Wrote a paper on "Implementation of MIPS instruction set on RISC Architecture" -------2012
- Attended 2 Day Seminar on "LABVIEW Software" ------ 2012
- I have made PLC (DELTA - DVP ES2) trainer during my BSc Engineering
- Participation Innovative Competition for Engineer (ICE) 2012 held by NFC-IET
- Participated 2 day's workshop for "Selling Yourself" held by NETS International