**Muhammad Kamran**

**Electrical and Instrument Manager**

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Competent and result-proven Engineer with 13 years outstanding record within reputed state-of-the-art plant and renowned automation companies in Pakistan and UAE. Demonstrated competencies in engineering, procurement, commissioning, troubleshooting and maintenance of various industrial systems, machines and equipments with proven excellence in managing spares inventory and cost reduction. Can effectively set priorities, deal with unexpected change and work in challenging and pressure-driven environment. Holds an exceptional capacity to lead, train, mentor and guide junior engineers towards achieving cumulative success.

***STRENGTHS***

+ PLC programming and troubleshooting + Motors, valves, brakers and contactors.

+ AC drives, servo drives, sensors and transmitters. + Rich Experience in Commissioning Works

+ HMI designing and troubleshooting. + Preventive - Corrective Maintenance Skills

+ Versed in Procurement – Logistics Coordination + Cost-Control Measures – KPI Implementation

+ Admirable Team Spirit & Team Playing Attitude + Drive to Attain Set Goals & Desirable Objectives

***KEY QUALIFICTION***

**2007 Bachelor of Science in Mechatronics & Control Engineering**

University of Engineering & Technology, Pakistan

***CAREER SNAPSHOT***

**Manager Electrical and Instrumentation –** Mezan Beverages Lahore, Pakistan

**April 2018 – Till Present**

* Maintenance of two KHS 36000 bph production lines, Water treatment plant, Ammonia Plant, Syrup room, Husky Injection Molding machine, Generators, HT/LT Panels, Transformers etc.
* Inventory Management
* Schedule maintenance to reduce breakdowns and increase plant efficiency
* Operation and Maintenance of Generators, Transformers, HT/LT Panels, VCB, ACB etc.
* Dealing with vendors for spare parts and services.
* Leading the technical team and providing support.
* Machines and Equipment maintenance records and maintenance scheduling accordingly.
* Ensure work practices as per HSE requirement and according to SOP’s.
* Employ annual evaluation and performance monitoring
* Temperature and current mounting of motors, panel AC’s and UPS
* Projects and maintenance cost estimation and feasibility studies.

**Manager Electrical and Instrumentation –** PEPSI Islamabad, Pakistan

**August 2016 – March 2018**

* Preventive and annual maintenance of two 20K bph CSD Pet line, one 36K bph CSD Pet line, two 20K CSD glass line, one 16k bph CSD Can line, One 12K bph water filling line, two tetrapak juice line and one 12K bph glass juice line. Other plant and equipment includes sugar dissolving plant, syrup room plant, water treatment plant, High pressure and Low pressure Air Compressor, Ammonia Refrigeration compressors etc.
* Analyze existing systems, discuss required process upgradation with machine manufacturers and contractors, budget preparation and approvals, scheduling of equipment delivery and production planning with coworkers and seniors.
* Monitor project installations and provide input as needed for quality assurance and satisfactory completion of project.
* Maintain records for maintenance and plan maintenance for smooth operations.
* Schedule and monitor the work of the E&I engineer and technicians
* Develop Standard Operating Procedures (SOP's) to assure instructions are clear, task are completed safely, eliminate negative impacts on the environment, and minimize down time
* Verify employees follow safe work practices and company policies and procedures
* Maintaining minimum level of spares inventory.
* Arranging in-house and external trainings for engineers and technicians to improve technical skills
* Monitor employee progress and perform annual evaluations
* Communicate with engineers and coworkers to receive repair needs and develop work priorities
* Ensuring temperature monitoring of all electrical panels, do panel AC servicing where required.
* Estimate costs of repairs to determine feasibility of repair or replacement

Have done following projects

1. One 20KVA UPS installation with power distribution for control voltage supply of production line machines PLC and HMI.
2. Two 6KVA UPS installation for control voltage supply of Low pressure and High Pressure compressors PLC.

**Assistant Manager Projects –** Dynamic Equipment & Control, Pakistan

**March 2015 – June 2016**

* Visiting Client sites and Preparing layouts and dimensions of client building for plant designing.
* Study complete plant design received from design department and work with client to do necessary civil modification in the building
* Preparing BOQs for parts and tools, employ accommodation, arrangement of contractual labor, PPEs and labor uniforms etc
* Preparing estimated cost of Projects
* Contracting with sub-contractors.
* Offloading of machines from Vehicles.
* Rigging of machines to the exact location after marking.
* Installation of machines according to drawing.
* Supervising piping work, welding, assembling, painting etc.
* Installation of Electrical panels
* Cable trays fabrication and installation.
* Cable laying, installation and termination according to drawing.
* Pressure Testing and Hydro Testing
* Final Acceptance test to customer.

Have successfully completed following projects.

1. **Mezan Beverages (pvt) Ltd. (Nov 2015 to June 2016)**
2. Installation of two 36,000 bph KHS PET Lines. (13M Euro)
3. Installation of 150 m3/hr AquaMatch Water treatment Plant. (0.65M Euro)
4. Installation of 5200kw refrigeration capacity GRASSO Plant. (2M Euro)
5. **Coca Cola Multan, Pakistan. (May 2015 to July 2015)**
6. Installation of 36,000 bph KHS PET line. (6.5 M Euro)
7. Installation of 60,000 bph KHS Glass line. (5M Euro)
8. Installation of two 50m3/hr water treatment plant.(0.35M Euro)
9. **Coca Cola Gujranwala, Pakistan. (March 2015 to June 2015)**
10. Installation of 36,000 bph KHS PET line. (6.5M Euro)
11. Installation of two 50m3/hr water treatment plant(0.35M Euro)

**Instrument Design Engineer –** Vega Technique, Dubai

**Mar 2014 – Feb 2015**

I was looking after Qatar, Iraq and Pakistan sales and projects. My job responsibilities are given below,

* Building relationship with old clients.
* Business development by visiting new clients, Phone Marketing, directing authorize distributors.
* Understanding customer needs and providing solution at most critical requirement.
* Designing the instrument according to process parameters by selecting modes of measurement, material, dimensions, temperature, pressure, height, hazardous area classification etc.
* Providing local and remote services to client.
* Managing payments and documentation.

Some of the projects which I have done are given below,

1. Interface level Measurement of oil/water for 1st stage water flush drum in Total Qatar.(15K Euro)
2. Interface level measurement of Benzene - Toluene and Oily water for Sasol South Africa contractor Yokogawa Bahrain.(30K Euro)
3. Level measurement for Borouge, Ruwais (ADNOC Group) UAE (15K Euro)
4. Level Detection of Paraffinic Naphtha/Water for New Petrochem Tank unit in ADGAS UAE (8K Euro)
5. Level measurement for concentrated H2SO4 tank for Rasgas Company Qatar(7K Euro)
6. Level measurement of stripped water for Oman Oil Refineries and Petroleum Industries Company(18K Euro)
7. Level Measurement of water for Mega reservoir project in Qatar General Electricity

and Water Corporation. (35K Euro)

1. Pressure measurement for Occidental of Oman (5K Euro)
2. Level measurement of Limestone for Lime Calcination Project in Associated Industries Limited contractor L&T Electrical and Automation UAE (25k Euro)
3. Hydrostatic level measurement of water for sump system level measurement project in Qatar Power Company.(6K Euro)

**Manager Electrical and Instrumentation –** Pepsi Lahore, Pakistan

**April 2008 – July 2013**

* Preventive and annual maintenance of two CSD Pet line 20k bph and 6k bph, two CSD Glass lines 20k bph, TetraPak Juice Plant, Sugar Dissolving Plant, Syrup room Plant, Water treatment plant and utilities.
* Analyze existing systems, discuss required process upgradation with machine manufacturers and contractors, budget preparation and approvals, scheduling of equipment delivery and production planning with coworkers and seniors.
* Monitor project installations and provide input as needed for quality assurance and satisfactory completion of project.
* Maintaining minimum level of spares inventory.
* Reduction of machine breakdowns and increase plant efficiency
* Developing and organization of job execution plans, supervising line supervisors, directing assigned personnel in meeting cost and schedule, trouble shooting and resource management
* Contracting and building relationships with international and local vendors.
* Arranging in-house and external trainings for engineers and technicians to improve technical skills
* Supervising the team of engineers and supervisors and providing technical support for smooth operation.
* Process System upgradation to increase plant capacity and efficiency by doing projects in existing systems. Some of these projects detail is given below.
1. Installation of new air conveyor at KHS PET Line.(40K Euro)
2. Installation of TetraPak Juice Plant.(Rental Plant)
3. Installation of 20,000 BPH PET Line.(2M Euro)
4. Installation and commissioning of Nitrogen Doser to filler machine.(30K Euro)
5. Reworked chiller control panel for temperature control system upgrade. (5k Euro)
6. Upgradation of AC Drives VLT 5000 Series to FC 300 Danfoss Series for smooth operation. Shifted Danfoss FCD300 Series from plant to control rooms. (35K Euro)

***TECHNICAL PROFICIENCY***

* Diversified experience of annual and preventive maintenance of KHS, Krones and Local beverage lines, Sidel blow molding machines, AF compressors, Siad Compressor, Husky injection molding machines, Berkefeld Water treatment plant, Vander Molen sugar dissolving and syrup room plant, Chillers, Cooling units, Ammonia compressors, Boilers etc.
* programming and troubleshooting of Siemens S7 PLC’s 200,300 & 400, ET Stations, Repeators, ASI Masters, Power supplies, DP Couplers.
* Transformers, HT/LT Panels, Power factor panel, ACB Brakers, Contactors etc.
* Experience of programming and troubleshooting of Siemens Simatic PC 670,OP7,OP17, Krones HMI’s, B&R HMI’s etc
* Commissioning and trouble shooing of Piezo Electric and other types of pressure transmitter.
* Commissioning and maintenance of KROHNE AND ENDRESS HAUSER flow meters.
* PEPPRL-FUCHS, LEUZE, SIEMENS, SICK, TELEMECHANIQUE, PILZ, DATASENSOR etc photoelectric, Inductive, Capacitive, Pressure, temperature, flow, Level, density etc sensors, Controllers, transducers and encoders commissioning.
* Having maintenance and Operation knowledge on pressure regulated valves, pneumatic signal alarms high and low, pressure and temperature gauges, electric to pneumatic (I/P) converters, solenoid valve, pressure regulator filter, electric to pneumatic transducers, limit switches, , pressure switches, pull cord switch, Belt sway switch, Zero speed switch.
* Have knowledge on Proportional Integral Derivative (P I D) controllers
* Can calibrate Analog Transmitters, Control valves, On, Off valves,Current to pneumatic (I/P) converters.
* Experience of B&R equipments like Industrial PC and ACOPOS servo drive..
* Have experience and training of soft PLC Multiprog and Twincat.
* Experience of working on AC drives like Dan Foss, SEW, Mitsubishi, Lenze etc.
* Operation and maintenance of Video Jet Coding machines.
* Operation and maintenance of Panel AC’s.
* Extensive experience of commissioning, trouble shooting and maintenance of startech x ray equipment.
* Maintenance and trouble shooting of Profibus, Actuator sensor Interface, Ethernet, CAN etc. busses.
* Operation and maintenance of Anton Par for density, Pressure and temperature measurement of Syrup.
* Thermography and maintenance of Contactors and Brakers.

**Softwares:**

Simatic S7, Wincc Flexible, Micro Win, Protool, AutoCAD, MS Office, MS Projects

***PROFESSIONAL DEVELOPMENT***

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| * Siemens Programming Level 1 Certificate
 | * Siemens Programming Level 2 Certificate
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| * Siemens General Electrical Training
 | * Certificate on Basics of Instrument & Control
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| * Festo Pneumatics & Hydraulics Training
 |  | * Danfoss Drives Training
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| * SEW Motion Drives Training
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 | * SKF Bearings Workshop
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|  | * Time Management Training
 | * Power of Synergy Training
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***PERSONAL DETAILS***

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| Nationality | : | Pakistani |  |
| Date of Birth | : | 20th April 1985 |  |
| Language | : | English & Urdu |  |
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