**KHURRAM**

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# Summary

I’m a MSC Mechanical Engineer from University of South Wales UK with more than five years work experience in Industries like FMCGs and Building Construction (Equipment Installation and Services). I have very strong Analytical and technical skills with good command over management. I would be a valued addition in the organization looking to improve its profits and market share.

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# Experience - (5 years 1 months)

* **MECHANICAL ENGINEER – (Project Installation, Commissioning & Maintenance) -** April 2011 to July 2013 (2 years 4 months)

Saad Contracting and Financial Services - Dammam, Saudi Arabia

**Responsibilities:**

Installation, commissioning, Preventive and Breakdown Maintenance of HVAC equipment’s using simplest and most efficient approach with cost effectiveness.

* **ENGINEERING SERVICES OFFICER (FMCG)** - May 2010 to April 2011 (1 year)

Coca Cola Beverages Pakistan Ltd - Lahore, Pakistan

**Responsibilities:**

Total Productive Maintenance - TPM of PET Bottling plant (0.5 L to 1.5 L) within the Health and Safety standards, keeping a good stock of parts inventory being used most e.g. bearings, mechanical seals, contactors, relays, circuit breakers, fuses, Pumps and motors etc.

* **MAINTENANCE SUPERVISOR (FMCG)** - March 2004 to Dec 2005 (1 year 9 months)

Innovative Foods Pvt. Ltd - Lahore, Pakistan

**Responsibilities:**

Preventive Maintenance - PM of Biscuit and Wafer plants with technicians under supervision of Maintenance Engineer. Meeting with Maintenance and production Engineers prior to carryout Preventive maintenance work on a running plant.

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# Key Technical Skills and Competencies

* **Mechanical** 
  + Familiar with the engineering processes for operating plant modification projects.
  + Finding solutions to mechanical engineering problems.
  + Strong problem solving skills
  + Have sound knowledge of Heat Recovery Systems.
  + Industrial heating equipment e.g. Furnaces, Boilers.
  + Knowledge of different types of Heat exchangers according to applications.
  + Ability to manage work flow processes in a production environment according to design specifications.
  + Supporting operations at manufacturing facilities.
  + Can handle multiple projects and activities simultaneously.
  + Risk assessment techniques.
  + Knowledge of HVAC equipment design parameters for industrial or residential/commercial use.
  + Familiar with Screw, Scroll, Reciprocating compressors.
  + Maintenance knowledge of Air compressors Atlas Copco (10 to 40 bars)
  + Maintenance knowledge of different Conveyors (belt or chain type)
  + Technical knowledge of Reverse Osmosis – R.O. and Waste water treatment plants.
  + Familiar with Gearboxes (oil seals, bearings type of oil to be used for each gearbox etc.)
  + Maintenance knowledge of small scale water tube boiler (tube replacement, leak testing and descaling).
  + Familiar with Different type of pumps i.e. Submersible type, Positive displacement type and Centrifugal pumps. (Food grade or waste type)
  + Maintenance knowledge of AHU’s and Chillers (gas or water cooled)
  + Maintenance knowledge of Air Conditioning Package type units.
  + Have sound knowledge of Heat Recovery systems.
* **Electrical / Electronics** 
  + Have sound knowledge and can design solar power plant for a small to medium scale usage with the help of leading software.
  + Have sound knowledge of Wind turbine power generation and can design a windfarm.
  + Familiar about Electrical and electronic equipment’s e.g. Circuit breakers, Contactors, Limit switches, pneumatic valves.
  + Familiar with Electric motors single or three phase (Bearing replacements and alignment with gearboxes or pump).
  + Familiar with Electrical power generators (Gas or Diesel fired)
  + Familiar with Electrical wiring diagrams.
  + Familiar with Electronic circuits fault checking like malfunctioning of diodes, capacitors, resistance, Transistors and able to replace with new ones.
  + Familiar with Transformers.
  + Can manage work for electrical equipment installation.
  + Familiar with HV and LV Electric cables laying out process.

* **Project Management**

* + Can carry out Mechanical or Electrical equipment installation projects from planning (drawing) to commissioning phase.
  + Have the ability to liaise with design team for any alteration required in the installation phase for ease of work.
  + Preparing project progress report, highlighting issues, giving suggestions to overcome arisen issues, seeking final approval from higher management.
  + Have the ability to fully train un-experienced team members to become skilled members.
  + Can use best of my knowledge and skills for completing a project on time to avoid any penalties.
* **Software**
* Phoenics – CFD (Computational fluid dynamics)
* Ansys
* Solid Works
* Scilab
* MS Project

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# Communication Skills

* Can liaise with contractor and sub-contractors to carry out installation and maintenance related work of mechanical and electrical equipment
* Ability to understand and describe technical drawings of engineering equipment and to others.
* Can understand the requirement of customer/market and communicate to team members for production or project improvement and to executives for marketing and future decisions making.
* Can give suggestions to higher management for short and long term improvement targets.
* Can utilize my skills to improve process flow for a minimum or zero downtime of machines by positive communicating with production team.
* Ability to liaise with different departments within the organization for technical or non-technical matters.
* Can negotiate with different suppliers and contractors for inventory parts or projects.

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# Management Skills

* Understanding and implementation of Project management guidelines for a specific project.
* Ability to manage the project from drawing to commissioning phase.
* Can manage work while working with a team or independently.
* Can manage mechanical and electrical maintenance team.
* Can manage in-house parts inventory with forecast of future inventory requirements.
* Can also manage production improvement or project related matters.
* Ability to complete the task or project within specific time duration.
* Can manage working relationships with different suppliers and contractors.
* Ability to help other without compromising my project.
* Can give suggestion to other departments for ease of work.

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# Areas of Expertise

* Project Management
* Maintenance Engineering
* Construction Engineering
* Material Procurement
* Workshop related Fabrication work
* Workforce Management

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# Academic Qualifications

* **MSc MECHANICAL ENGINEERING** (MERIT) - Feb 2014 to Jun 2015

University of South Wales, Pontypridd UK.

* **Major Modules Studied**
* Safety Health and Environmental Engineering
* Non-Destructive Testing
* Applied Thermodynamics
* Sustainable Energy Systems
* Computational Fluid Dynamics
* Industrial Heating Process
* Integrative Project Planning and Management
* Research Method for Engineers
* **Dissertation**

CFD (Computational Fluid Dynamics) analysis of Wind Turbine blade – NACA 4412, with and without Winglet using PHOENICS CFD.

* **B-TECH (Hons) MECHANICAL ENGINEERING** (80 %) - Sep 2005 to Jun 2010

University of Engineering and Technology, Lahore Pakistan.

* **Major Modules Studied**
* Industrial Electronics
* Low Cost Automation
* Advance Machine Tools
* Production Process & Management
* Maintenance Planning & Management
* Manufacturing process
* Tool Design
* Machine Design
* Advance Foundry Techniques
* Instrumentation & Control
* Industrial Materials
* Industrial Management
* **Project 1**

SWOT (Strength, Weaknesses, Opportunities & Threats) Analysis of Victoria Electrical Complex.

* **Project 2**

Structural Analysis of Fuselage of an aircraft.

* **Diploma of Associate Engineering** **in Mechanical Technology** - Sep 2000 to Mar 2004 Government college of Technology, Lahore Pakistan.

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# Reference(s)

Available on request.