**MSc, B. Engineering (Mechanical)**

GASCO

UAE

**OBJECTIVE**

Seeking new challenging role that requires application of modern techniques with a view to use my knowledge, innovation and problem solving skills in line with my professional qualification, experience and abilities. Be one of the key of the Company's vision into realization through strong dedication.

**EDUCATION / PROFESSIONAL QUALIFICATIONS**

* **Masters** (Engineering Management) - University of Greenwich, England (2008)
* **Bachelor Degree** (Mechanical Engineering)-Visvesvaraya Technological University, India (2007)]

 **PROFESSIONAL EXPERIENCE**

**Design Engineer (March2011-2013)**

**Pioneer Design & Engineering Services (PDES), Bangalore India:** Pioneer Design & Engineering Services **(PDES)** offers cost effective services in product-design and development for Automotive, Aerospace, Heavy-engineering and Consumer Products industries.

**Job Roles & Responsibilities:**

**Design Engineering and Project Management:**

* Ensure all design work is safe and in compliance with international codes & standards, company Health, Safety and Environment as well as policies and procedures and overall technical integrity of project is maintained as per project specification.
* Coordinate with other Units to Interface issues and external agencies, Engineering contractors, licensors & suppliers etc.
* Prepare scope definition, estimation and progress control of the engineering activities based on client project specifications. Ensure all engineering work is carried out within established budgets and schedules.
* Prepare Isometric 3D design, Support design and Stress Analysis. Carryout product engineering as per ISO/TS 16949.
* Facilitate in carrying out audits during engineering & manufacturing phases and ensure the close out of all recommended audit points.
* Prepare technical Bid tabulation and vendor drawing review of parts.
* Review all relevant project documentation and provide recommendations to the project from the development of FEED till smooth commissioning of the facilities.
* Participate and provide vital inputs in HSE review, 3D-Model review, manufacturability review, HAZOP and value engineering reviews and participate in inspection of prototypes.
* Prepare and compile all documentation relevant to spare parts procurement in close co-ordination with the clients & Vendors.
* Provide all necessary technical assistance during production, commissioning and start up phases by resolving design related technical queries.
* Marking up all part Isometrics and products as per documentation
* Lead and ensure that all aspects of the Manufacturing Engineering or Maintenance related projects requirements are delivered on time and effectively within budget. **This includes:** Coordination of Project Costing; Review and report project status; PDM, PLM -ENOVIA, SMART TEAM; Coordinate with suppliers and contractors, negotiate and ensure project specifications.

**Automotive specific:** Door Trim Upper Bezel, Bumper Cover Rear, B Pillar Lower Trim, Seat recliner cover, Wrap surface, Remastering- Sheet metal component, Design and Analysis of Automatic Transmission System, Front Axle assembly of 4WD Tractor, Seating system components.

**Others:**

* Represent the CAD department at customer and product development liaison meetings and ensure effective implementation of design practices to meet customer needs.
* Interact with clients and establish productive working relationships with engineering, planning, design teams to maintain customary liaison.

**Customer:** European

Software Used: CATIA V5

**Production Engineer (November 2008 – February 2011)**

**SBE Ltd-UK, Ashford:** SBE Ltd. is a leading European industrial group in the electronics and telecommunications service fields offering comprehensive aftermarket solutions for players in the telecommunications industry and consumer electronics sector.

**Job Roles & Responsibilities:**

**Production Engineering:**

* Monitor, analyze and report on the performance of all production activities, in terms of both equipment efficiency and process effectiveness.
* Deliver quality engineering production solutions in learned response to development, manufacturing, and operational needs.
* Develop and upgrade existing and new plant line equipment, layout and processes in order to maintain continuous improvement in efficiencies, by balancing the stations within the line leading to cost saving and lean manufacturing.
* Plan, coordinate and control the production processes and evaluate all plant related process systems and procedures to ensure efficient modifications and for improvement.
* Direct the production team members and introducing efficient methods of production line. Ensure Engineering and Maintenance support to the Product Teams within the Plant in their daily activities for Continuous Improvement, Quality issues and root cause analysis including any plant implantations (TPM, TQM).
* Ensure that the customers specified standards are met in all areas by using APQP methods and any other directed systems.
* Carryout Failure Mode and Effects Analysis and proactively work to solve equipment issues and implement immediate containments, together with longer term innovative solutions.
* Work closely and direct the maintenance team in supporting all aspects of both plant and site maintenance (including facilities, and consumable purchases).
* Liaise with all levels of internal personnel, including Maintenance, Process Engineers and Team Members in order to collect and evaluate information to analyse issues, then to communicate and implement any changes that may be required.
* Ensure interface between the Plant, Engineering and the customers. Identifying risk mitigation actions and risks.
* Maintain current and historical data on equipment efficiencies in order to aid in productivity and cost improvements.
* Where applicable provide support and backup to the Bill of Material Analyst during periods of absence or vacation (All aspects of the role)
* Procure new equipment, ensure proper installation and commissioning, and carry out pre- commissioning checks together with Maintenance staff prior to the acceptance of new equipment into the plant and agree sign off with the supplier.

**Process Management & Quality Assurance**:

* Initiate and develop Quality Management Systems including related procedures, and liaise with all Divisions throughout the organization to ensure its proper functioning and implementation.
* Supervise and perform internal Quality audits to determine performance against required quality criteria.
* Assess operational processes to determine potential for optimization and improvement of products, services and transactions.
* Study and implement process improvement methodologies such Lean Management Six Sigma and Business Excellence model
* Provide advice and assist in new projects and processes and carryout required evaluation, scoping, planning and estimation.
* Develop Process Standard Procedures including workflow of process among various teams for improvement of process efficiency.
* Monitor and advise on the performance of the quality management system and produce data and report on performance, measuring against set indicators.
* Study/ analyze and recommend on required changes and implementation, and provide training, tools and techniques to enable others to achieve improved quality.
* Coordinate the work of external consultants related to the Business Process reviews and Quality Management Systems.

**Purchasing and Vendor Management:**

Ensure Direct Charge Purchase Requisitions, procure materials and equipment required the Company operations, include:

* Screen/review Direct Charge Purchase Requisitions for proper specification and elimination of stock items ordered via Direct Charge Purchase Requisitions.
* Analyze and identify the items to adopt cost effective methods of purchase like the long-term price/purchase agreements and procure various types of materials and equipment required for the Company.
* Negotiate the prices with the suppliers as per company policies / procedures to ensure cost effective purchasing.
* Coordinate with user Departments for establishing and utilization of Long term price agreements to shorten procurement cycle and improve efficiency. Review and assist users to provide proper cost estimates and to forecast annual consumption patterns on quantities with a view to maximize commercial gains.
* Provide advice periodically on direct charge and capital requisitions for adequate material descriptions, enhancing specifications by necessary coordination with end users.
* Control complete purchasing cycle and discuss with users and suppliers to clarify techno-commercial aspects of the tenders before recommendations are made with emphasis on total cost factors and maximum savings to the company.
* Participate with the user in the technical analysis whenever required, follow-up evaluation of bids and carry out commercial assessment.

**Leadership/ Advisory roles:**

* Report all KPI's at management meetings for both Industrial Engineering and Maintenance Departments.
* Act as a Mentor and develop novice production engineers.
* Support the management of change within the plant in order to provide continuous improvement includes review and modification of various procedures to increase final outcome of the organization.
* Provide technical expertise and support in problem solving to other internal departments and customer personnel, in all areas of the business, in order to continuously improve quality, productivity and profitability.
* Ensure that company health, safety and environmental requirements are met at all times in line with established guidelines i.e. housekeeping, plant regulations, method statements etc.

**CAREER**

**MSc in Engineering Management subject modules included:** Advanced Principles in Lean Manufacturing, Advanced Principles in Supply Chain Management, Operation Management, Quality Engineering, Global Engineering, Automation and Robotics, Strategy and Management, Research Methodology.

**PROJECTS**

**Research Project - (Master’s in Engineering Management – University of Greenwich, U.K.)**

**Develop Cell Layouts in Job-Shop using Group Technology.**

The study was aimed at developing a systematic methodology that will enable to develop cell layouts on an existing job shop floor by using Group Technology and lean cell design concept. The main goal of this new approach was to reduce the number of machines from the process. Parallel scheduling of the machines and part according to the process in common which help to reduce much space in the layout. Resulting model proved to be efficient by evaluating the cell formed through its performance measures.

**Project – (Bachelor of Engineering- Visvesvaraya Technological University, India)**

**Design of Flexible Gravity Roller Conveyors.**

The study was to design a gravity roller conveyor more flexible than existing conveyors. Design tools used were Catia V5, AutoCAD and Ansys. Entire Structural Analysis had been done and identified the maximum load that can withstand by the conveyor. A small prototype model was developed for demonstration. Newly developed conveyor was recommended for light weight goods. Costs for the new design were estimated resulting in the manufacturer obtaining a 15% cost reduction in production.

**ASSIGNMENTS**

The beer game – Advanced Principles in Supply Chain Management

The do anything you like project – Quality Engineering

TWI Case study- Advanced principles in Lean Manufacturing

Free Essay on Capacity Planning – Operation Management

Research Methodology- Auto Mobile Industries in UK

Strategy & Management (Case study and Presentation) – Expansion for Saint Gobain in India or China

Automation & Robotics- (Case study and Presentation) - Pick a Rubber Band from bunch of Rubber Bands, Smoke alarm assembly.

 **TECHNICAL SKILLS**

* Well trained in executing Lean Manufacturing Methodologies such as 5S, VSM, Poke Yoke
* Systems, Kanban, Kaizen and Root Cause Analysis, JIT
* Comprehensive understanding of engineering and design principles and experienced in designing product flow and work sequence
* Sound knowledge in Design of Experiments, Quality Engineering and Facilities planning and Management
* Knowledge in Systems modeling and simulation, Statistical Process Control
* Knowledge in application of Total Productive Maintenance (TPM), Total Quality Management
* (TQM) concepts
* Good knowledge in UG NX CAD 7.5 – Assembly Modeling, Drafting
* Knowledge in CATIA V5 – Assembly Modeling, Drafting, Surface Design, Sheet metal Design
* Knowledge of Geometric Dimensioning and Tolerancing (GD & T)
* Knowledge of MS Office Applications

**BEHAVIORAL SKILLS**

* Strong problem solving and analytical skills
* Have ability to do research, and have creative approach for generating new ideas
* Have a methodical and logical approach to projects
* Have excellent communications skills
* Strong work ethic
* Able to work independently as well as part of a team

**PERSONAL DETAILS**

Date of Birth : 13/12/1981

Nationality : Indian

Languages : English, Malayalam, Hindi

Marital Status : Married