

F. ELPHINSTON

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(5+ years of experience in Product Design)



SKILLS

- Auto CAD 2D & 3D
- Design for Manufacturability (DFM)
- Design for New Product Development (NPD)
- Bill Of Materials Preparation (BOM)
- Working knowledge of ASME (31.1, 31.3 e.c.t), BPVC, ASTM, ANSI, PED, ASME Y 14.5 Tolerances & EJMA Design (Under ASME Sec. VIII)
- CREO, SOLID WORKS, TEKLA
- Design for Failure Mode Effect Analysis (DFMEA)

EXPERIENCE - 1

DESIGN ENGINEER : M/s. BENGAL INDUSTRIES PVT LTD. - Faridabad, (BIPL)

MAR/2019 - Till Present

Bengal Industries is the only Hose Manufacturer in India to receive "CE" certification. This is from DNV, Norway for design, manufacture and testing of stainless steel corrugated flexible hose assemblies under Pressure Equipment Directive (PED), Piping, Metal Expansion Joints.

RESPONSIBILITIES

- Checking the Drawings, customer specifications & to give clearance for production as per GE specifications.
- To determine the feasibility of products manufacturability during design.
- Ensure that the final design is in compliance with design standards & statutory norms like BPVC, PED, NACE, EJMA (Bellows Division)
- Analyzing project specifications given by customer and designing the products to meet as per the customer requirement.
- Communicating with customers for engineering query.
- Preparing Engineering specifications / Standards, Inspection procedure (QAP), Testing Procedures & Process Documents.
- Material selection based on the application and type of standard used.
- Designing the product, Fixtures for New Product Development (NPD)
- Involving with Production & Quality team to solve technical issues
- Diagnose for any problems encountered in the manufacturing drawing as well as preparing suggestions for avoiding repetition in future

PROJECT I - GE POWER - USA (GENERAL ELECTRONICS) - Cross Fire Bellows for Gas Turbines

PROJECT II - ISRO (INDIAN SPACE RESEARCH ORGANIZATION) - Multi Ply Bellows upto 8 Layers

EXPERIENCE - 2

DESIGN ENGINEER : M/s. METALLIC BELLOWS (I) PVT LTD. - Chennai, (MBIPL)

OCT/2014 - FEB/2019

Specializes in offering a wide range of Metal Expansion Joints (BELLOWS) for various applications, which includes High Pressure Hoses, Welded bellows, Accumulators, Space & Aero Space bellows Assembly, Hydro Formed components, Bellows seals, Valve Bellows, etc.

RESPONSIBILITIES

- Analyzing project specifications given by customer and designing the products to meet as per the customer requirement.
- Material selection based on the application and type of standard used.
- Calculating the material cost and fabrication cost.
- Preparation of Quality Assurance Plan, Testing Procedures & Process Documents for Customer Approval.
- Analyzing the design data provided for drawing.
- Diagnose for any problems encountered while drafting as well as preparing suggestions for avoiding repetition in future
- Making manufacturing drawing including various welding details enabling clarity for production department.
- Preparation of BOM with brief specification
- Prepare Detailed Drawings, Fixtures, Fabrication Drawings & Machine Drawings
- Communicating the status with customers, and open for making any additional details, changes in the process
- Modifying/upgrading existing details in equipment, plant layouts etc for enhancing the productivity and quality.
- Maintained accurate project records such as updated drawings and documents throughout project lifecycle.
- Preparing drawings as well as layouts for final submission to clients
- Coordinate with vendors, suppliers and contractors to ensure delivery of finished goods

PROJECT I - HAL (Hindustan Aeronautical Limited) - Gimbal Venturi for Enviromental Control System

PROJECT II - BARC (Bhabha Atomic Research Centre) - Bi Directional Bellows

VARIOUS CUSTOMERS & PROJECTS HANDLED WITH IN THIS PERIOD

- Larsen and Toubro
- GE WATER & PROCESS TECHNOLOGY - UAE
- AST SPA – Italy (Valve Bellows)
- IGCAR (Indira Gandhi Centre for Atomic Research)
- VSSC (Vikram Sarabhai Space Centre) - Pressure Amplifier
- LPSC (Liquid Propulsion Systems Centre)
- PONTEROSSO – Malaysia (Valve Bellows)
- NPCIL (Nuclear Power Corporation of India)

CERTIFICATION

- AUTOCAD (2D & 3D)
- TEKLA Ver. 21.1
- ASNT Level II (PT, UT, MPT, RT, VT & RTFI)
- CNC Programming

EDUCATIONAL QUALIFICATION

- Bachelor of Engineering (Mechanical) MACET - 2014
- Diploma (Mechanical), MGPT, Nagercoil - 2011
- X, GHSS, Nagercoil - 2008

PERSONAL DETAILS

- Date Of Birth - 13.02.1993
- Nationality - INDIAN
- Marital Status - Married