

Bipin Yadav

Sr. Engineer (Mechanical Design) and Engr. Service

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Dec. 2019

Bachelor of Engineering
*Mechanical Engineering,
Mumbai University*

RELEVANT SKILLS

MCAD

(IGES CAD, SolidWorks, AutoCAD, CADMATE, CATIA)

Drawing & Drafting

(ASME Y14.5 of GD & T)

International standard

(ISO, EN, BS, D.O.T., ASME & ASTM)

Quality & Audit Tools

(ISO 9001 & IATF 16949 System knowledge, FMEA, 6 Sigma, 7 QC Tools, QMS, IEC 60079 Compliance, PPAP, APQP, MSA, NC Management, CAPA, RCA-5Why-Fishbone-8D, Audit report preparation & Tracking)

Certifications & Training

- Ex-Certified Engineer
- Certified Firefighter
- Emergency First Aider

Domain Knowledge

(Casting, Fabrication, Sheet metal and Automation, SPM, Jigs and Fixtures)

PROFILE SUMMARY

Sr. Design Engineer with 6+ years of experience & a strong background in **Pressure vessel & Explosion proof Equipment** design. Experienced in preparing Engineering calculations, selecting materials, design & collaborating with Certification bodies for BIS/PESO/CCOE, ATEX/IECEX & ADNOC approvals.

Simple and soft by nature.

PROFESSIONAL EXPERIENCE

May 2024 – Till Date

Sr. Design Engineer

Selection of safety – UAE (Explosion-proof Enclosures)

- Core Skills
 - Flameproof (Ex-d) Enclosure Design in compliance with ATEX / IECEx Standards.
 - Flamepath Design & Validation (plane/Cylindrical/Threaded)
 - Material selection for Ex-d Application (Aluminium/SS/CI etc.)
 - Heat Dissipation & internal volume calculation.
 - Thread Engagement & Gap verification (as per IEC)
 - Gasket & fasteners selection for Ex-d Enclosure
 - Degree of protection (IP 66/67)
 - Bill of Material (BOM) Preparation & Drawing Control.
 - Manufacturing feasibility & Design for Machining
- Documentation & Certification
 - Preparation of Technical Constructional file (TFC)
 - Preparation of Operational & Maintenance Manual
 - Explosion proof marking
 - Certification support documents (GA Drawing-MOC Certificate-Data sheet)
 - DFMEA
 - Customer Drawing Approval Process
 - Cross functional co-ordination with QA, Production & Testing.
 - Aware of the following standards such as IEC 60079-0, 60079-1, 60079-7, 60079-31 along with Temp class, Gas group, dust Group, Equipment Protection level, IP etc.

Jan 2021–April 2024

Design Engineer

Everest Kanto Cylinder Ltd. India, Boisar (High Pressure Vessel Equipment)

- Product based company i.e., Seamless Cylinder for high pressure storage, for Industrial and Onboard (CNG)
- Aware of the standard IS 7285-1, 7285-2, IS 15490 & IS 3224.
- Prepare different calculation sheet, details drawing based on calculation sheets, technical files for approval from relevant TPI authorities.
- Follow up with BIS, CCOE, TP (BV, SGS, IRS, etc) for approval of drawings.

Productivity Tools

(MS Office, Adobe Photoshop)

Strength

Good teamwork with positive approach.

Flexibility to handle Changes.

Learning attitude.

Leadership Quality

Public Speaking

Presentation Skills

Project

Reinforcement Material (In DRDO)

To enhance the property of Material by adding additional element & Heat treatment

- Study the tender document & prepare relevant technical documents
- Defining & updating all documents for ISO & TC certification.
- Study PO requirements & prepare Design Output for shop floor/Purchase.
- Analysis of production process, Record Process related problems and suggest for improvement.
- Time study for all process for optimum output and suit Purchase Ordered Price.
- Maintaining documentation
- Interaction with clients
- Creating concept and finalizing designs
- Creating Drawing and model of different machine parts.

Jan 2020–Dec 2020

Design Engineer**Karamtara Engineering Pvt Ltd.**

- Product and service-based company of Transmission line Tower
- Read the tender
- Prepare Supporting Documents
- Taking follow up of manufacturing process preparing detailed Process Drawings
- Maintaining Documents

Declaration: I hereby declare that the information provided above is True to the best of my knowledge & belief.

Bipin Yadav