Phone no: +91 9962095885 /e-mail Id: thowbik2020@gmail.com / towards.peer@gmail.com

Objective:

To be Part of a Progressive Organization that Gives Scope to Enhance My Knowledge, Skills and to Reach the Pinnacle in the Field with Sheer Dedication and Hard Work.

Profile Summary:

- ➤ Having around 8.10+ Years of experience as a **Mechanical Design Engineer** New Product Development, Design & Detail Engineering, and Prototyping & Reverse Engineering using PLM / PDM Software.
- > Strong Ability to Create/Read/Interpret 3D CAD Model And 2D Engineering Drawings in Conformance with Pre-Defined Technical Specifications with appropriate GD&T by ASME Y14.5 2009 standard.
- Perform Tolerance Stack-Up Analysis (WC/RSS) to meet the Functional Requirements.
- Proficiency to Coordinate With Manufacturing Team and Acquired Knowledge on Manufacturing Processes/Technologies.
- Implementing Design changes as per customer requirement through PLM & PDM, Engineering Change Management (ECM).
- > Responsible for creation And Managing **BOM and Material Master List** in PLM Software.
- Apply an Effective Methodology of (VA/VE) Value Engineering for Identifies Alternatives to Perform the Required Function at Cost Reductions in the product & process.

Competences:

- ✓ To Ensure **Progress** is Up to Date and **Reflects the Required Levels of Maturity** at any given point in time.
- ✓ Design And Development of Automobile Components for Motorcycle Accessories
- ✓ Design And Development of **Material Handling Equipments** for OEM Shop floor.
- ✓ Design Support on Oil Extracting Devices for Oil & Gas Industry.
- ✓ Design Support on Engine And Power train Component Mountings and Foundation Brakes
- ✓ Expertise in CAD Software's Creo5.0/SOLID WORKS 2012/UG NX.8/CATIA V5 R21/Auto CAD.
- ✓ Perform Dimensional Variation Analysis (DVA) using Team Center @VIS MOCK UP VSA the key to increasing productivity, optimizing processes, reducing cycle time and increasing quality
- ✓ Analysis using FEA, Ansys.12 Software and Interpret CAE results to ensure effective function.

Professional Journey:

Organization	Designation	Duration
Honeywell Technology Solutions Lab Pvt. Ltd.	Mechanical Design Engineer II	19/07/2021 to Current
Royal Enfield (A Unit of Eicher Motors Limited)	Assistant Manager _ Senior Design Engineer	03/07/2017 to 16/07/2021
TATA Consultancy Services	IT Analyst _ Senior Design Engineer	16/03/2014 to 21/06/2017
MEKINS Industries Ltd JV with Paul Muller	Senior Design Engineer - Product Development	02/01/2013 to 06/03/2014

Educational Journey:

Qualification	Institute	Year of Passing	Marks %
M.E Engineering Design	Anna University, Chennai, P.S.G. College of Technology, Coimbatore.	May 2012	7.01 CGPA
B.E Mechanical Engineering	Anna University, Chennai, Madha Engineering College	May 2010	74%

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Professional Experiences:

4 of 4 M/s Honeywell Technology Solutions Lab Pvt. Ltd:

Working with M/s Honeywell Technology as a Mechanical Design Engineer II

- NPD/NPI Industrial Actuator Product Development.

Key Roles and Role Responsibilities:

Sr. Design Engineer 19/07/2021 to Present

- Being responsible for Design and Development of Mechanical Enclosure and Dynamic Parts for Actuators and Transmitters of castings and Plastics.
- > To conduct the structural analysis for the castings and design tweaking based on the flow analysis.
- In co-operate with internal departments such as program and application management, quality and purchasing and answer all technical queries pertaining to products

3 of 4 M/s Royal Enfield Motorcycles A Division of Eicher Motors Ltd:

Employed with M/s Royal Enfield Motorcycles India Ltd, as a Senior Design Engineer,

- New Product Development for Genuine Motorcycle Accessories

Key Roles and Role Responsibilities:

Sr. Design Engineer 03/07/2017 to 16/07/2021

- Being responsible for the Design and Development of Motorcycle Specific Supplementary Products for the Chassis and Engine assembly.
- > Being responsible for **Progression of Design** Maturity from **Initial Concept** through to **Engineering Sign-off** and **Deign Gateways**, Component level **Product Testing & Validation**.
- > To Define Appropriate System- level **Engineering Targets to meet Function, Quality and Attribute** requirements of **the Vehicle Program**.
- Progress the Design with the 3D CAD Modeling & Drafting tool Creo5.0 in line with the Program Timescales and Deliverable Cadence.
- > Develop and Maintain the **Design Validation Plan (DVP)** including both In-house and Supplier Testing plan and to Ensure **Development Sign-off Tests** are completed on schedule.
- > Ability to Check and Manage Clearance to Interface parts, GD&T and Tolerance Stack up Analysis
- > Ensuring the Manufacturing Feasibility of components Designed with DFMEA / DFM / DFA Tools.
- > Ensure Sub Systems Meets Weight Targets achieved through Centre of Gravity Measurement on CAD.
- > To Execute ECR and ECN Design Changes.
- > To Work Effectively and Efficiently in PLM Software Wind Chill.11 for Product Data Management (PDM)
- > To Develop System **Design Specifications** incorporating **Engineering Standards**, **Test Procedures** and **Material Specifications**.
- > To Support Purchasing Team in Sourcing and RFQ activities.
- > Ensuring all Relevant **Documentations** as per **ISO& Quality Standards**.
- > To Liaise with **Supplier**, **Manufacturing**, **CAE** and **Validation Teams** in order to come to a common solution.
- > To Support Vehicle Launch and Pre Production Builds as Alpha, Beta activities.(Virtual and Physical)
- Ensuring issues that cannot be resolved are escalated to Lead Engineer.
- Having experience on Manufacturing Processes such as Die Casting, Hot and Cold Forging, Machining, Injection Molding, Sheet Metal Operations and Welding Processes.

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2 of 4 M/s TATA Consultancy Services Engineering and Industrial Services (EIS)

Employed with M/s TATA Consultancy Service as a Senior Design Engineer.

Key Responsibilities: Client #02 General Motors Company Sr. Design Engineer 01/04/2016 to 21/06/2017

- Design and Development of Powertrain Aggregates (Drive train, Propeller shaft, Transmission) for Automotive Application
- > Design Support for ZF TRW **Brakes**, Client, Pune.
- > Creating 3D Modeling and Manufacturing Drawings with appropriate GD&T using CATIA/Pro-E/Creo.2
- Knowledge of 2D Design and Checking (GD&T, Design Standards)
- Establish Detailed Engineering Requirements for Assigned Tasks that Meet Project Requirements.

Key Responsibilities: Client #01 Baker Hughes Inc.

Sr. Design Engineer 16/03/2014 to 31/03/2016

- New Product Design, Value Engineering and Alternate concept generation for existing Functions.
- > Scale up and Scale down of Existing design for new sizes with additional design modifications.
- Design Support for Shale Oil Extraction Devices for Oil & Gas Industry.
- > Working for Value Engineering Team Involves in Designing the New Variants for the Product.
- Creating 3D models for the products using CAD Software's. UG NX8.0 And Solid Works And Creo.2
- Validating the Design with Design Calculations and Tolerance Stack up.
- Perform Tolerance Stack-Up Analysis to meet the Functional Requirements.
- Perform Dimensional Variation Analysis (DVA) simulation for critical Gaps using the Team center Vis-Mockup-9.1 to which tuning the part tolerances for balanced product quality and cost.
- Generating Manufacturing and Fabrication Drawings, Incorporating GD&T and other all details as per Standards, Specifications and Requirement
- > DFM study for design changes.

Achievement

- Received appreciation from the clients for the successful Design Support for the projects.
- Done Automation with VB Script to reduce the cost and time to achieve good quality output.

1 of 4 M/s, Mekins Industries Ltd., - JV Paul Mueller GmbH:

Employed with M/s, Mekins Industries Ltd., - JV Paul Mueller GmbH,

- As a Senior Design Engineer, New Product Development for Chennai Branch.
 - Well Specialized for Material Handling Equipment Manufacturer for Automobile and Engineering Application OEM's In House Material Transportation and Storage Solution provider.
 - Well specialized for making Stamping Pallets & Steel Stillages for the Indian Automobile Industry. Tier One supplier for Major OEM's like – Volkswagen, Renault Nissan, Daimler, Ford& the list goes on.
 - Well Specialized for making Forklift Attachments, Forklift Extension Slippers, Forklift Dumping Bins and Goods cages with required WLL as per customer needs.
 - Well Specialized Fabrication Solution provider for Engineering Applications.

Nature of Work/Responsibility:

Sr. Design Engineer 02/01/2013 to 06/03/2014

- Develop and Development of Pallets/ Material Handling Equipment and Aid Manufacturing Team for Sheet Metal Automotive Body Parts and for other related Components.
- > Creating 3D models using CAD Software's and validating the Design with Design Calculations.
- > Structural Analysis using FEA, Ansys.12 Software and Interpret CAE results to ensure effective function.
- Acquired knowledge on Manufacturing Processes.
- Aiding Production Team for day to day activities.

Peermohamed Thowbik K

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Technological Exposure:

Modeling And Analysis Software's	VIS-Mockup-9.1 (VSA), Solid Works.12, Pro/ENGINEER & Creo5.0, CATIA V5 R21, UG NX7.5, Auto CAD 2007, Ansys.12/Workbench, Lab VIEW 8.2. SAP 7300.2.4.1084, Team Center 9, Wind Chill.11, Microsoft Office, (VBA) Programming,
Methods	New Product Development, CAD Modeling, GD & T, Tolerance Stack up Analysis, Dimensional Variation Analysis (DVA), Design For Six-Sigma, DFMEA, DFM, FEA.

Project Works:

- > _A Project on "Design and Development of Print Head for Polymer Inkjet Printing Technology (IJPT)". In PSG Tech, Coimbatore.
- A Mini Project on "Designing of Vibration Absorber for a Cantilever Beam" in PSG Tech, Coimbatore.

Personal Profile:

Age : 32 Languages Known : English and Tamil

Nationality : Indian Marital Status : Married

Declaration,

Date:

I, <u>Peermohamed Thowbik K</u>, do hereby declare that details furnished above are true to the best of my knowledge.

Thanking You

Place:

(Signature)