

ABHIJEET ITARE

<http://www.linkedin.com/in/abhijeetitare> | 823 708 6665 | abhijeetitare@gmail.com | 480/2, Curilo, Utorda Beach road, South Goa.

Career Objective

As a Mechanical Engineering professional having 5+ Year experience in Product Development, CAE with specialization in Tooling and well versed with understanding RFQ, SOR, Project commercials, Product Design. CAE Structural, Plastic molding simulation. Offering complete design solutions to improve product quality, reduce cost and improve its overall performance. Now Looking for a Techno-Commercial role in engineering projects to excel personal career growth with the organization.

Skills

Mechanical Design Engineering	Concept Generation	Research and development
Prototyping and Testing	Design Standardization	Product Validation
Manufacturing Processes	Plastics/ Autodesk Moldflow	Material Selection
GD&T/ Tolerance Study/ BOM	DFMEA/DFM/DFA/DVP	3D CAD (Creo, Catia, UGNX)
MSC Marc Mentat/ AdamView/ Patran	Minitab/JMP/MS Excel/ Powerpoint	Problem Solving/ DOE/ 7QC tools

Work Experience

Product Engineer

IFB Industries Ltd. – Goa.

04/2022 to Till date

Working in Washing machine division and reporting to R&D Project Manager. Position holds responsibility of Structure development of front load and Top load machines, also new technology enhancements to improve Washing machine performance. Now working as a product integration engineer and understanding to complete product profile.

Work Profile:

- Providing problem solving support on existing products quality issues.
- Working closely with Operations, Manufacturing, Design, Suppliers and Services center teams
- Benchmarking study of sub-assemblies of competitors.
- Working on VAVE ideas.

Assistant Manager

Minda Industries Ltd. – Gurugram, Haryana

11/2017 to 03/2022

Reporting to Engineering Manager. Position holds responsibility of two wheeler automobile switch development by understanding customer's requirements and considering inputs from cross functional teams and CAE support for inter-domain locations of UNO Minda facilities PAN India by understanding customer's engineering testing requirements and developing simulation and design methodologies.

Design Projects Profile:

- **Piaggio Italy**, Low ampere handle bar switch (LH,RH).
- **REML** handle bar electro-mechanical switch (LH,RH) and brake lever holder.
- **Yamaha and Suzuki** Side Stand switch DVP and Product Validation and testing at Mindarika testing Lab facility.
- **Honda** VA/VE project: elimination of double insert molding in horn module switch.
- **Honda** modular switches concept generation, mechanism design and prototyping.
- **Hero, Honda, Yamaha** brake switch tool duplication support.

CAE Projects Profile:

- **Harley Davidson** Thermal Simulation of handle bar Heated Grip (tools used MSC Apex, MSC Marc Mentate)
- **John Deere, M&M** Non Linear Structural Simulation of Plastic Snap Lock fit Design
- Royal Enfield (**REML**) Non Linear Structural analysis of Two wheeler Brake Lever and Holder
- **KTM** Metal to Plastic conversion of two wheeler brake lever using virtual validation.
- **Yamaha** Multi Body Dynamics simulation of handle bar switches to predict F-S Curve. (tools used MSC AdamsView)
- Moldflow Simulation of **TAFE** Bumper and Spoiler Sequential molding to optimize buckling warpage.

Work Profile:

- As a domain expert for mechanical engineering, is responsible for the development and realization of all mechanical elements of the Automobile Switches.
- Establish detail break down of the activities to meet the Project milestones. Ensure progress in development.
- Customer Interaction, understanding nature of their working procedures, Query sheet preparation, spec. finalization.
- Study and idea generation from benchmarking, teardown, competitor sample analysis.
- Review customer's SOR, ensuring fulfillments of development experience.

- Redesign existing electromechanical high ampere switches into low Ampere.
- Establish detail break down of the activities to meet the milestones using approaches FTA, PDCA, 5W2H, QRQC
- Assembly tolerance study and worst case analysis to avoid any failure.
- Implementing design review points to avoid past failures and capability study for brought out parts with vendor development.
- Preparation of technical proposals, problem solutions with Customer quality team using data analysis tools like JMP/Minitab.
- Suggest VAVE proposals reduce costs and overall manufacturing efficiency.
- MBD Virtual test lab modeling of switch mechanisms using MSC Adams view to predict actual operating feel (F-S Curve) of switch and its correlation with actual test samples.
- Conduct FEA analysis to predict structural integrity of parts and their failure in static linear and nonlinear as per spec.
- Countering plastic molding defects and its prediction in early stage development using Molding Simulation.
- Support in Optimization of design using CAE tools, material selection and establishing work flow methodologies.

Design Engineer

03/2016 to 11/2017

Whirlpool GTEC onsite – Pune, Maharashtra

Onsite placed on payroll of ExperisIT Pvt.Ltd Reporting to Global Project Engineer, position holds responsibility design and development of plastic parts and coordinating with product engineers and virtual validation from simulation engineers.

Projects Profile:

- Design of refrigerator crisper drawer, Bottle shelf, Door End cap, Ice tray.
- Design of ice tray snap lock, Prototype building, material selection, Engineering calculation validation.

Work Profile:

- CAD modeling of plastic parts, Drawing generation with Bill of material.
- Define and evaluate mechanical concepts designs, tests on component level.
- Creation of mechanical specifications requirements, simulation requests for mechanical analysis and review the results.
- Supported global level projects of refrigerators, and washers of NAR, LAR and EMEA regions.
- Responsible for maintenance of technical data (3D, drawing, BOM)
- Maintaining DWM/ MOM of the activities of project to meet target deadlines.
- Actual Manufacturing results correlation with simulation engineers and building working standards and methodologies to improve prediction
- Preparation of technical knowledge documentation, Design Improvement proposals, Product failure modes Fishbone diagram.

Internship Training

Motherson Sumi Infotech & Design Ltd. Pune in Engineering & Design Division

10/15 to 03/16

- I learned working in parametric CAD environment, Drafting, GD&T and interaction with CAE engineers for design inputs.
- A surface, DFM and DFA checks
- Understanding basic project requirements of customer's like Solize, HUL.

Education

P.G Diploma: Tool Design & CAD CAM Indo German Tool Room, Passed with 72% marks	12/2015
B.E.: Mechanical Engineering Nagpur Institute of Technology, Nagpur University Passed with 62% marks	06/2013
12th Science CBSE Kendriya Vidyalaya- CBSE passed with 69% marks	06/2009
10th CBSE Kendriya Vidyalaya- CBSE passed with 66% marks	06/2007

EXTRAMURAL ENGAGEMENTS

I am a sports loving person. Played Badminton, chess and trekked 90km and attained height of 10,000 feet. I love to play guitar in my free time and also associated with delhi based fitness Bhangra Dance Company.

Personal Details

Date of Birth: **05 JUNE 1992**

Per. Add: 263, Samarth Gajanan Society, Datta Wadi, Nagpur (MH) 440023.

Declaration

I hereby declare that all the details given are genuine and can be subjected to verification at any time.

Signature: A.P Itare