

Mr. Ajinkya A. Zurunge

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Profile Summary

- Total work experience of 10+ years.
- Currently working as a Senior Design Engineer in **Hinduja Tech** Pune.
- **8+ Years** of work experience in Design and Development of Sheet metal **BIW** and **Closure** Components and **Press tool design** for sheet metal Components.
- **2 Years** of work experience in **TDBM** and **Value engineering (VAVE)** of BIW components and subsystems, support to Costing and sourcing team (Bill of material, Competitor analysis report, Function analysis report and Idea bank).
- Having Sound knowledge in Automotive **BIW, DIW**, All manufacturing and assembly process of sheet metal parts.
- Perform all the necessary **packaging study** of the given **styling surface** in the objective of understanding its interaction with the neighboring environment, **regulations** and tooling feasibility.
- Provide innovative solutions considering all the relevant constraints, initially suggesting the probable solution through generation of **master sections**, Gap & Flush analysis by performing benchmarking study.
- Designing products for Tooling, Manufacturing, Assembly, and Functionality,
- Proficient in CAD tools CATIA, UG-NX [Surfacing/Part Design/Assembly/Drawing workbenches] to provide parametric 3Dmodels for component realization.
- Experience in application of **GD&T** & Tolerance Stack-up Analysis.
- Incorporating Design changes as per feedback from departments, Customers.
- Familiar with **Engineering materials, Coatings** and **Manufacturing Processes**.
- Excellent communication, presentation, coordination and Team management skills.

WORK EXPERIENCE-

- **Company-** Hinduja Tech Ltd. (2nd December 2022- Present)
Role- Senior Design Engineer.
Job Description- BIW Design and Development
- **Company-** TATA Technologies Ltd. (2nd July 2012- 29th November 2022)
Role- Design Engineer.
Job Description- BIW Design and Development

PROJECT EXPERIENCE-

1. **BIW Design and Development of**
 - **DIW Closures Assembly and Components.**
 - Experience in various vehicle development projects such as **Commercial** and **Passenger Vehicles** DIW sheet metal Design and Development.
 - Nature of projects includes initial packaging design, through supplier selection stage, till physical realization of vehicle.
 - Standard inputs will be **style/design surfaces** from the styling team, which will be later worked and developed to matured components.
 - Updating the new styling surface for **Side Doors, Hood panels**, design of inner panels, **Reinforcements** (Door frame, Latch reinf, Hinge reinf, Door waist reinf.).
 - Responsible for **parametric design of DIW** sheet metal parts, material & Thickness.
 - Involved in design Concept Reviews, technical discussions with other departments.
 - ECN ECR creation, PLM, design, BOM release activity.

- **Upper Body and under body Assembly and components.**
 - Making modifications & providing proposals for the **BIW** parts based on feedbacks from Vehicle Architecture, Process, Paint, Stamping and CAE.
 - Generating **2D drawings** and **3D annotations**.
 - Preparations of spot weld data for under body as per standard.
 - Co-ordination with **Suppliers, Vehicle Architecture, Process, Stamping** and **CAE**.
 - Getting approval on the concept, finalizing the concept and doing the final detailing.
 - Support to manufacturing, testing and quality departments as and when needed.
 - Designed, Developed and Validate new **BOM** against drawing details as required.
 - Document all Designs for all internal & external developed products.
- 2. **VAVE PROJECTS**
 - **VAVE** and Benchmarking: Performance enhancement and cost reduction through Teardown and benchmarking as well as VAVE for Different automotive companies.
 - Product study for each product and function analysis of each component/assembly of the product with the help of detailed study of some physical parts available.
 - Generating cost reduction ideas using VAVE approach. Create CAD models.
 - Finalize concepts to realize actual cost saving, Generate Bill of Material (BOM)
 - Design and Cost Optimization of Passenger Cars **VIN-FAST** Cars, Teardown Benchmarking Projects: PSA, TATA Motors, Lawn Mowers: Bob-Cat.
- 3. **Sheet metal press tool design.**
 - Die designing for the requirements and standards stated by the customers.
 - Materials selection of Castings inserts and heat treatments as per standards.
 - Fulfilling the PLM requirements and uploading dies in PLM for TATA Motors.
 - Design of Draw, Trim, Flange, Pierce, Cam Trim and Pierce and Restrike dies.
 - Our clients are OEM's Volvo, BMW, Bentley, Volkswagen Mercedes and Tata motors through tire-2 service provider.

SOFTWARE EXPOSURE

- **Design Software:** CATIA V5, UG-NX, PTC CREO, TEAM CENTER WINDCHILL.
- **Application Software:** MS office (Excel, Power point, Word, and Outlook).

QUALIFICATION

Qualification	University	Class
Masters of Engineering (Design)	Pune University	1 st
Bachelor of Engineering (Mechanical)	The Institution of Engineers	1 st
Diploma in Mechanical Engg.	Govt. Polytechnic, Pune	1 st

PERSONAL DETAILS

Date of Birth: 10th June 1993

Nationality: Indian

Gender: Male

Marital Status: Married

Languages Known: English, German, Hindi, and Marathi

Address: Dattakrupa Niwas, Madhuban Society Lane No. 1, Sangvi Pune- 411027

I hereby declare all the above information are true to the best of my knowledge and belief.

Place:

Date:

Signature