**+91-7389500834**

MECHANICAL ENGINEER – Vehicle Architect, System Integrator & Project Manager

**Pune, MH**

**linkedin.com/shubhamkushwah**

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**SOFTWARE SKILLS**

**CATIA V5-R20 ★★★★★**

**UG - NX ★★★★**

**Enovia ★★★★**

**Teamcenter ★★★★**

**MS Office ★★★★★**

**Ansys ★★★**

**Vis-VSA ★★★**

**Python ★★★**

**Determined Design Engineer with success boosting productivity and 6+ years of New Product Design & Development (Transmission and Suspension) and Project Management experience. Seeking a challenging position in Mechanical Design Engineering to improve my analytical skills as well as give the best of my knowledge to the organization.**

**⯍ Project Management ⯍ Product Design & Development ⯍ Integration**

**SHUBHAM KUSHWAH**

**Work Experience**

1. **Tata Elxsi Ltd, Senior Design Engineer – Integration & Tolerance Stackup  
   July2022 – Present   
   Project / Client: – Powertrain System Design & Development**

* Currently Responsible for Integration & 2D-Tolerence Stackup of Powertrain System for Upcoming Asian projects
* Executed Cut-Section Project of Client’s Existing Powertrain System (Transfer case & E-drive) for Internal trainings and Marketing including Design & Physical Cut-Section with Vendor interaction.
* Complete 2D-Tolerence Stackup for Transfer Case and Differential System.
* Study all the kind of Client’s Powertrain System and help to other teams to developing a new concept.
* Learning 3D-Experince & SAP training for Internal Resource management.
* Support to Create drawing for Various transmission components with Client Standards
* Support to Other team to Study - Decoupling DFMEA

**CORE SKILLS**

**KEY ACHIVEMENTS / APPRECIATION**

**Project Management**

**Component Level Integration**

**Concept Design & Maturation**

**Product Design & Development**

**Design Improvement QA**

**Standardization & Reliability**

**Vendor Liaison**

**Team Management**

**Process Improvement & Value Engineering**

**Vehicle Concept Evaluation and Idea Generation**

**Design Reviews and Releases,**

**Database Development & Documentation**

**Field Issue Resolution & Customer Support**

**Received Appreciation from Client to handle Cut-Section Project**

**Received Appreciation from Client to Complete task within a time with Quality.**

1. **HERO MOTOCORP (Deputed by PersolKelly), Associate - Integration & Project Management  
   July2021 – July2022   
   Project: -World’s First-Class Changing Vehicle (2W+3W).**

* Pro-active involvement in Proto build activates including Component finalization, Supplier interaction, implementation of designs and create production issue list as well as design issue list.
* Interacting with **Vendor Team at each stage of Prototyping**, Resolving any development issue
* Regular interaction with whole CFT for VI Check, Concern resolution, DFA & DFS.
* Releasing Vehicle E-Bom, Vehicle Configuration & SOR for Mechanical Components.
* Detailed specification and performance level benchmarking of the competitors

products and implementation of key takeaway points in the final design draft.

* Support to Create Drawings for Various Aggregates.
* Preparing Harness layout for 3W and 2W, Understanding Packing of Electronic Components and their Mounting Feasibility.

1. **Abhikalp Design Studio, Design Engineer – Transmission, Suspension & BIW   
   May2019 – July2021**
2. **Project - Client: - JBM - BMTC EV-BUS**

* Designing of Traction Cooling System & Battery Cooling System layout along with Packing Constraint on various aggregates.
* Preparing Design and Drawings for Various Components in Chassis, Transmission and Suspension System
* Regular interaction with whole CFT for VI Check, Concern resolution, DFA & DFS.
* Releasing Vehicle E-Bom, Vehicle Configuration & SOR for Mechanical Components.
* Detailed specification and performance level benchmarking of the competitors
* products and implementation of key takeaway points in the final design draft.
* Support to Create Drawings for Various Aggregates.
* Preparing installation on vehicle drawings for Drive-train Components such as Transmission shaft, Traction motor and wheels and Tyre assembly

**B. Project - Client: - Mahindra Truck & Bus Division – Cruzio Bus**

* Handling Design of Bus structure & exterior panel for new midi bus as per AIS 052 norms.
* Designing & detailing of bus body structure, side LH, RH, Floor, Roof structure for different wheelbase.
* Concept design of bus body aggregate parts like battery box, mud flaps, sheet metal covers, step well, wheel humps and tail lamps.
* Benchmarking from Existing and Redesign of RTD –Driver Floor as Per Vehicle Aggregates Changes.
* Releasing EN (Engineering Notice) for the part production & DFM of components.
* Creation of Assembly Drawings for FES and Bus Body Structure.
* Release PPRF (proto part request form) for the proto part development through Team Centre.
* Prepared Design and Production documentation such as proposals, drawings, Bill of Materials (BOM).

1. **Ace Engineering’s & Chemical’s Pvt Ltd, Product Design & Development Engineer – Composite & Plastic, Sep2017 – May2019**

* Designing and Drafting of Composite Side Underrated Protection device (SUPD) for VECV.
* Preparing DFMEA, DVP and In house Impact Testing Unit for ARAI Approval.
* Concept generation and Development of Composite Sleeper Berth for VECV.
* Designing of Vacuum Concept Engine Hood for VECV.
* Designing and Drafting of Composite Air Tank’s for VECV.
* Designing and Drafting of Composite Rear Cross-Member for VECV.
* Designing and Drafting of Composite Floor for VECV.
* Designing and Drafting of Composite Rear Underrated Protection device for VECV.
* Designing of Checking Gauges for Plastic product.  
    
    
  Date: - 01/10/2023

Place: - PUNE (SHUBHAM KUSHWAH)

**Received appreciation from team and higher management people to handel by own**

**Employee of the year in ace engineering and chemical private ltd during 2018 to 2019**

**EDUCATION**

**B.Tech. - Mechanical Engineering from AITR Indore In Year   
2013 -2017**

**12th From MP Board In Year - 2012**

**10th From MP Board In Year - 2010**

**Participated – Baja, G0-Kart & Quad Race**

**Workshops On Different Automobile & Electronics – Participated**

**Positive Attitude**

**Problem solving**

**Perseverence**

**Versatile**

**Effective Communication Skills**

**CERTIFICATES**

**STRENGTHS**

**Tata Elxsi Ltd, Senior Design Engineer – Integration & Tolerance Stackup (July 2022 – Present)**

* Lead integration and 2D tolerance stackup analysis for Asian powertrain projects.
* Executed a client's powertrain cut-section project for training, marketing, and vendor interaction.
* Conducted 2D tolerance stackup analysis for transfer cases and differentials.
* Contributed to the development of new concepts for client powertrain systems.
* Gained expertise in 3D experience and SAP for resource management.
* Created transmission component drawings adhering to client standards.
* Supported cross-functional teams in DFMEA study for improved project outcomes.

**B. Project - Client: Mahindra Truck & Bus Division – Cruzio Bus**

* Designed the structure and outer panels for a new midi bus, following AIS 052 norms.
* Detailed the bus body, including side panels, floors, and roof structures for different wheelbases.
* Came up with ideas for bus parts like battery boxes, mud flaps, covers, step wells, wheel arches, and tail lamps.
* Compared our work to others and improved the driver's floor to fit changes in the bus.
* Oversaw the release of notices to improve part production and manufacturing.
* Created drawings for the Front End Structures (FES) and the bus body.
* Started the development of prototype parts through the Team Centre by requesting them.
* Prepared documents for designs and production, including proposals, drawings, and lists of materials (BOM).

**4. Ace Engineering’s & Chemical’s Pvt Ltd, Product Design & Development Engineer – Composite & Plastic (Sep 2017 – May 2019)**

* Designed and drafted a Composite Side Underrated Protection Device (SUPD) for VECV.
* Prepared DFMEA, DVP, and an in-house Impact Testing Unit for ARAI Approval.
* Innovated and developed a Composite Sleeper Berth for VECV.
* Designed a Vacuum Concept Engine Hood for VECV.
* Created Composite Air Tanks and Rear Cross-Members for VECV.
* Engineered Composite Floors and Rear Underrated Protection Devices for VECV.
* Designed checking gauges for plastic products.