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| **Manoj Kumar Kadambala** **E-mail**: manojkkadambala@gmail.com **Mobile**: 8983747496 | |  |  |  |  | **Contact Address:**  Flat: B005, Ushodaya S Square, T.C. Palya Main Rd, near Sri Chaitanya techno school, Bengaluru, Karnataka 560016. |
|  | **Profile Summary:**   * Result oriented professional with over **7+ Years** of experience as a Senior Design Engineer. * Proven capabilities in gathering product specifications and developing components & designs using the state-of-the-art design software like CREO, UNIGRAPHICS (UG/NX), TEAM CENTRE (PDM/PLM), WINDCHILL & KOLA. * In-depth understanding of product development life cycle including study of specifications, requirement gathering, designing, integration, documentation and support. * Efficient organizer, motivator & team player with the capability to motivate teams to excel and win. * **Educational Qualification**:   Bachelor of technology in Mechanical Engineering (**Aggregate**: 72%)  **College**: Gandhi Institute of Technology & Management. (2011-2015) **University**: GITAM, Visakhapatnam.   * **H.S.C** with 89% from Narayana Jr. College, Visakhapatnam. (2009-2011) * **S.S.C** with 76% from Vignan Vidyalayam, Visakhapatnam. (2009) | | | | | |
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|  | * **Professional Experience (7 yrs):**   Currently working with Capgemini Engineering as a Sr. Design engineer since April 2022.  [Projects leading for **VOLVO** Trucks].  I) Past experience with **TATA Motors** Automotive sector (Pune) as a Senior design engineer  In “**Transmission Drive train Department**” from May 2019 to April 2022.  II) Past Experience with **Mahindra & Mahindra**, Automotive sector [Mumbai] as a design engineer in  “**Plant Drive Line Team - Transmission**” (PDT) from April 2016 to May 2019.  [On Payroll: Design tech Systems]   * **Core Competencies and Responsibilities:**   1. Lead Team Member in **“Development of Drivetrain/Powertrain layout for a compact SUV**” by TATA motors  (Mule vehicle) and CFT member.  2. Generated ideas and executed VAVE projects related to passenger powertrain Transaxle components  with end-to-end ownership right from idea generation to product launch  3. Feasibility study & developing concept designs and proposals of math model for Transmission &  Transfer Case by benchmarking the existing design according to the voice of customer, the vehicle  layout & packaging, casting & assembly feasibility.  4. Documentation of engineering & manufacturing mechanical components & assemblies with their  design along with BOM.  5. Involvement in proto development & testing of transmission according to the SOR conditions.  6. Ensure production and tooling feasibility of designed part.  7. Experience in working with regional suppliers for core transmission component development and  sheet metal brackets.  7. Responsible for field issues, line issue resolution and involvement in failure analysis.  8. Design release following DFMEA, DFS, and DFA & using of ERP system PCR, ECR, ECN In part  release Process.  9. Experience on methodology planning of sheet metal components.  10.Working with manufacturing engineering to ensure that component/system design meets the  manufacturing assembly requirements.  **Key Projects Handled:**   * **Project 1:**  **Design and Development of Battery structures for battery systems.** **Responsibilities**:   1. Responsible for design & development of Battery box installation components and Air tank  installation components such as sheet metal and casting brackets for VOLVO Sleeper & Day  Cab Trucks.  2. Concept design and finalization based on requirement using QDCF tool.  3. Design validation through FEA & Indoor testing.  4. Investigation on FEA report and calls for design modifications according to report.  5. Packaging study for product classed to reduce diversity.  6. Concern resolution on developed parts at the stage of tooling & PPAP (PIL’s & PCR’s).   * **Project 2**:  **Conversion of Pin Shift System to Welded Shift System in transmission.**  1. Taken care of concept model presentation and proto sample availability.   2. Samples tested at RIG level and addressed all the failure noticed and successfully completed  validation as per assigned DVP with IDT team and TRSO with supplier.  3. Drawings prepared and released and documented through PDM & PLM.   * **Project 3**:  **Reverse synchro mechanism.**  1. Developed concept model of synchronized reverse in existing transaxle within the package able   area by considering PXMU & QDCF with at most carryover parts.  2. Prepared drawing for proto development and continuously supported to proto planning team for  proto part development.  3. Did tolerance stack-up for accommodating the reverse synchronization pack in transaxle.  4. Analyzed the possibilities and listed them out for DFMEA of a project along with all CFD members.   * **Project 4**:  **Value Analysis & Value Engineering (VAVE).**  1. By understanding the current scenario worked on cost reduction ideas by assessing processes and   adding alternatives without compromising the intent of the design.  2. Conducted workshops to generate more value-added ideas.  3. Taken over all the responsibilities of ideas generated till the implementation by coordinating with  all the stakeholders.  4. Preparing VAVE weekly dashboard for HOD and president review.     * **Project 5**:  **Digitization of after-market operations.**   (Warranty concern and IMCR/VAVE)  **Responsibilities**:  1. Finding out the root cause of field failures raised by the customer and change in design with  proper validation and tryouts. Inline discussion with CFD members and releasing in PLM.  2. Independently handled field service issues & engineering change in design and manufacturing  process to ease manufacturability at reduced costs.  3. Created service/repair manuals and SOP for transmission assembly & dismantle.  4. Led a team of 2 members for creating maintenance planners and service work order, Transmission  inspection template creation, was responsible for data validation, planning and delegation of work  to the team members and ensuring on time delivery.   * **Project 6**:   **Constant mesh transfer case for Mahindra Pick-up 4WD**  **Responsibilities:**  1. Generated concept of constant mesh gear engagement in optimized condition from sliding mesh.  2. Made design modifications in existing part level and packaging, and manufacturing feasibility from  supplier.  3. Released proto part drawings and continued my support to supplier while manufacture the proto  samples to build transaxle for RIG level validation.  **Short lead Projects Handled:**  1. Twin layshaft transaxle development for TATA SUV.  2. Power train drive shaft proto development for new mule vehicle Nexon with 5 speeds.    **Permanent Address**:  H.No.9/39, Pedda Komati Street,  Sompeta, Srikakulam(Dist)   Andhra Pradesh-532 284 | | | | | |