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SUMMARY

- **5+ years** of professional experience in Finite Element Analysis (**FEA/CAE**) for real world products and able to work in various aspects of FEA
- Worked for **Global OEM** clients in the field of **Automotive**, **Off Highway Trucks & Mining Equipment.**
- CAE experience in **Linear Static** Analysis, **Nonlinear** Analysis and **Modal** Analysis
- Experience in **Full Vehicle FE Modeling** & Assembly using **Hypermesh** for Crash, safety, strength & Durability Analysis.
- Possess in detail knowledge of **Solid Mechanics**, **Structural Analysis** to help the industries solve their queries on design and performance compatibility of a product
- Hands-on experience in the **CAE project** activities like preparing SOW for project, Resource planning, Project tracking, Results Reporting, Review meetings with customer & Project delivery
- Having work experience as onsite CAE analyst at **General Motors** Technical Center India (GMTCI Bangalore)

SKILL SETS

- **FE Modeling:** Good quality mesh generation for sheet metal & plastic components in **Hypermesh**
- **Structural Analysis:** Hands on experience on linear static, modal & nonlinear analysis in **Abaqus & Nastran**
- **CAD Modelling:** Basic Knowledge of generating 3D models in **CATIA**

QUALIFICATION

Examination	Institute/University	Score %	Year	Class
M. Tech (CAD/CAM)	JNTU Hyderabad	80.00	2016	First Class With Distinction
B. E. Mechanical	Pune University	64.27	2014	First Class
DME	MSBTE Mumbai	80.70	2010	First Class With Distinction

TRAINING & CERTIFICATION

- **Certified Advanced Diploma** in CAD-CAE (Hypermesh, ANSYS Workbench & CATIA) at IFS Academy Pune
- **Abaqus** Deck preparation Training for linear static, modal and nonlinear analysis at Onward Tech. Pune
- **Nastran** training for linear static & modal Analysis EASI-Allegis Services Pvt. Ltd. Bangalore
- **Full Vehicle Assembly** training at General Motors (GMTCI), Bangalore

WORK EXPERIENCE

Application Engineer | *Onward Technologies Limited, Pune*   *[June '18 – present]*
- Worked for world's leading manufacturer of **Construction, Mining Equipments & Off-Highway Trucks**
- Understand customer requirements and apply various strategies defined by customers for developing accurate FE models as per their standard practices and physics involved in the system
- Clarify the problem definition and carry out geometric cleanup, element selection, contact definition and applying appropriate boundary conditions
- Good quality fine mesh generation in **Hypermesh** for shell and solid components
- The major working areas are **meshing**, **connections** for whole assembly, **deck preparation**, error debugging, submitting the run and checking model behavior after completing the run
- Interpret results in terms of part performance relative to design goals and suggest improvements
- Record results in FEA project database, write **reports** and give presentation as required
- Participate in design **review meetings** to provide appropriate design update recommendations
- Estimate the project delivery time, prepare **SOW**, distribute wok amongst team members, take care of billing hours and get approval from customer

CAE Analyst |*EASI -Allegis Services Pvt.Ltd. Bangalore (Onsite Deputation- General Motors)* *[Oct '16 – may '18]*
- Understanding functionality of different sub-systems and worked in the area of **Full vehicle Model building** for Crash, safety, strength & Durability Analysis
- Responsible for the geometrical clean-up by & Good Quality shell Mesh generation in **HYPERMESH** for different automotive subsystems like Head lamp, Instruments panel, Door Trim, Center Console, Wiper Cowl panel, Fuel lines, Garnish trims, Hood, Front fascia & Rear fascia, Chassis, Exhaust etc.
- Giving **Connections**, Welds, Joints, **Contacts** & Removal of **Intersections** of automotive subsystems
- Performed activities like **Project plan**, Resource planning, Project tracking & project delivery

CAE Engineer | *FE-Solve Engineering Services Pvt. Ltd, Pune* *[Oct '15 – Sept '16]*
- Worked as **CAE Modeler** responsible for Good Quality Mesh generation in **HYPERMESH** for Automotive plastic & sheet metal Components for global automotive component manufacturers
- Assigning the **section and Material properties** to the components with **Quality checks** like Edges, Normals, Feature capturing, Connectivity, Duplicates, Free 1Ds etc.

TECHNICAL PROJECTS

Linear Static and Modal Analysis of Exhaust System for mining truck
Application Engineer | *Onward Technologies (Client: Caterpillar Inc.)*   **Tools used:** Hyperworks & Nastran
- Different brackets supporting the truck engines exhaust system have analyzed for structural integrity
- Modal analysis is carried out to find critical frequencies for critical engine orders
- Estimated project hours, prepared SOW, distributed work amongst team and targeted timely delivery

Linear Static and Modal Analysis of Oil Filter Bracket
Application Engineer | *Onward Technologies (Client: Caterpillar Inc.)*   **Tools used:** Hyperworks & Abaqus
- Performed static structural & Modal analysis for Oil filter bracket at different loading conditions
- FE modelling of oil filter bracket with solid elements, captured weld splits & weld volumes, added contacts

Linear Static Analysis of Fuel Tank Assembly
Application Engineer | *Onward Technologies (Client: Caterpillar Inc.)*   **Tools used:** Hyperworks & Abaqus
- Performed static structural & Modal analysis of fuel tank assembly of mining trucks at different loading conditions by considering hydrostatic pressure and splashing effect
- Studied different kinds of gussets, channels to provide more stiffness and strength at minimal cost

Linear Static Analysis of staircase, Handrails & filler platform of Mining Truck
Application Engineer | *Onward Technologies (Client: Caterpillar Inc.)*   **Tools used:** Hyperworks & Nastran
- To evaluate structural integrity of staircase, Handrails & filler platform for for different loading conditions
- Performed G-Load & Iso-Load analysis and reported the results to customer with design recommendation

Picture Moment Analysis for Mining Truck
Application Engineer | *Onward Technologies (Client: Caterpillar Inc.)*   **Tools used:** Hyperworks & Nastran
- Static structural Walk-load analysis done for Mining Truck with considering max. number of people standing on staircase & platform of truck while picture moment
- Reported results as per customer acceptance criteria for Von-mises stress & max. allowable displacement

Development of subsystems for full vehicle program for crash analysis.
CAE Analyst | *EASI -Allegis Services Pvt. Ltd*. *(Client: General Motors)*   **Tools used:** Hypermesh & ANSA
- FE Modeling as per customer guidelines for Full Vehicle subsystems like Headlamp, Instruments panel, Door Trim, Center Console, Wiper Cowl, Fuel lines, Hood, Front & Rear fascia, Chassis, Exhaust etc.
- Connections, Welds, Joints, assembly & Removal of Intersections for subsystems as per Guidelines.

LANGUAGE PROFICIENCY
- English, Hindi, Marathi.