Shantanu G

Work Experience

- **Magna Steyr (CAE Analyst)** — **NOV 2022 – TILL NOW**
  - Implementation of FEA in automobile & structure domain; handling stages of CAE projects – work planning, processing & report preparation.
  - Collaborating in design optimization, design evaluation through FEA. Meshing, Model Building, Connection Development, Cavity building, **Trimmed Body Building**, perform **Modal analysis** to calculate natural frequency.
  - Developing **1-D element**, Bolting, Seam weld, Spot weld, Adhesive connection.
  - Working on full vehicle trimmed body building, linear analysis, **GDS, LDS, ODS, GSS, LSS** load cases.
  - NTF & VTF load cases preformed on full vehicle.
  - Building strategy to tackle optimization problems.
  - Calculation of transmission loss of muffler in **Actran.**
  - Perform stress analysis on Sheet Metal & Plastic Parts of automobile.
  - Perform **FRF** on full vehicle, BIW, Chassis.
  - Converting **model from Nastran to Abaqus**.
  - Working on calculation of stiffness of **Plastic Parts & Sheet metal**.
  - Worked for **Mahindra Pick-up full vehicle (TRIM BIW + TRIM FRAME)** on FRF calculation & **NVH load cases**.
  - Worked for **Perodua vehicle** on plastic parts (IP, Console, Door, HVAC, Glove box) to calculate clip stiffness & stiffness on specific loading points in Abaqus.
  - Worked for **BFL** on **Chassis Strength analysis** for stress calculation.
  - Worked for **BFL** on **Modal analysis** for subsystem.
  - Undertaking multi-assignment in team – meeting with clients, supplier & vendor, work distribution with little supervision.

- **Kotkar Energy Dynamics Pvt. Ltd. Pune. (Senior Design Engineer)** — **AUG 2022 – OCT 2022**
  - Worked on more than 2 linear & non-linear FEA projects in automotive & structure.
  - Collaborating in design optimization, hand calculations, report preparation, BOM & production drawing preparation
  - Building strategy to tackle optimization problems; segregation of design and non-design space, deciding design constraint.
  - Working on wind-load calculation on structure.
  - Working on a vehicle seat modification & mechanism of seat mobility.
  - Developing a structure for multipurpose use with power supply from solar & wind turbine.

- **Marathwada Institute of Technology, Aurangabad (Assistant Professor & Research Assistant)** — **JAN 2017 – AUG 2022**
  - Six months project in "Accrete Electromech Pvt. Ltd." named "Design and Development of Proper Storage & Retrieval System for Pipes".
  - Six months project in "Ajay Industries Pvt. Ltd." named "Design and Development of Proper Storage & Retrieval System for Pipes".
  - Implement online education platform & ERP in College.
  - Ten days training attended at "TATA Technologies" & study BIW, Four wheeler development process, CATIA, Automotive Design.

Education

M.Tech (Mechanics & Design) – Indian Institute of Technology Hyderabad – GPA: 9.23/10 — August 2014 – August 2016

B.E. (Mechanical) – Govt. College of Engineering & Research Avasari – Percentage: 69.73/10 — August 2009 – August 2013

Certifications

Title	Year	Remarks
Certified trainer for Ready Engineer program.	2018, 2019	At TATA Technology
Participate in live industrial projects was launched by MASSIA in partnership with GIZ	2017, 2018	At MIT Aurangabad

Skills

Software Skills:

- Working knowledge of **ANSA, NASTRAN, ABAQUS, METAPOST, CREO, MATLAB, ANSYS and SOLIDWORKS.**
- Analysis procedure: FRF, Linear & nonlinear analysis, Structural Analysis, Modal & frequency response, Static & Implicit method.

Key Interpersonal Skills:

- Adaptability & Teamwork
- Timely Project Delivery
- Analytical & Problem-solving skill.
- Client orientation

Achievements

Title	Authors	Publication Date	Journal	Publisher
Nonlinear Analysis of Shape Memory Devices with Duffing and Quadratic Oscillator	S. R. Gaikwad[1], A. K. Pandey[2]	01/01/2018	Journal of Computational and Nonlinear Dynamics	ASME

Declaration

I hereby declare that the above mentioned information's are correct up to my knowledge.

Shantanu Rajendra Gaikwad