

CURRICULUM VITAE

Amol Anil Patil
Email: amolp375@gmail.com
Mobile: 8149338141



OBJECTIVE:

To become a highly skilled professional and develop an ability to adapt to today's ever changing intellectual and technology driven environment. To realize challenges with dedication and work in an environment which expands my technical abilities.

PROFESSIONAL SUMMARY:

- 6 years of experience in **CAE-NVH**.
- Proficient with modeling and NVH Simulation procedures in Automotive domain.
- **Worked on projects for Commercial Vehicles & Passenger Cars.**

CAREER HISTORY:

Duration	Organization	Designation
May 2016 to Nov 2016	EMPOWER Gensets	Design engineer
July 2017 to March 2020	ZUTI Engineering (MTBD)	CAE Engineer
July 2020 to June 2022	TCS (General Motors)	NVH Engineer
June 2022 to till date	SATVEN (Stellantis)	Sr NVH Analyst

EDUCATIONAL QUALIFICATION:

- Graduation in Mechanical Engineering (BE) from North Maharashtra University with 66.86% as aggregate in 2015.
- Class 12th from Pravara Public School, Pravaranagar with 71 %.
- Class 10th from Pravara Public School, Pravaranagar with 80 %.

TECHNICAL PROFICIENCY:

- CAE Software Tools : ANSA, Metapost, Hypermesh, Nastran, Optistruct.
- Areas of Expertise : Meshing, Modeling and Simulation.
- Domain Area : Noise Vibration and Harshness.

JOB RESPONSIBILITIES:

1. ZUTI Engineering

1. Experience in FE Modeling, Full Vehicle Integration and Debugging at Sub-system level, Trim body and Full Vehicle level in the area of Commercial and Passenger Vehicles.
2. Maintaining and Performing NVH quality Criteria checks for model.
3. Experience in FEA Loadcases such as SOL 103, SOL 108, SOL 111.

2. TCS

1. Experience in FEA Loadcases such as TSM & FV Normal modes, Dynamic Stiffness analysis, TSM Acoustic and Vibration Transfer functions.
2. Knowledge of Topology optimization, Topography optimization.
3. HVAC Blower Motor Imbalance Topology Optimization Project.
4. Acoustic cavity modelling for passenger cars and doing coupling checks for acoustic coupling.
5. Actran Exterior Acoustic Cavity build for Full Vehicle.

3. SATVEN (Body NVH)

1. Hands on experience in integrating the BIW and Trim BIW.
2. Developed D-Pillar Lateral Insert for Torsion improvement of Trim body.
3. HVAC Imbalance Root Cause for Stg wheel 12 O' Clock Vibrations Resultant RMS Amplitude.
4. Trim Body Build and its Checks, its Simulations like Body Global modes, Dynamic Stiffness, NTF.
5. Supported one of Trim Body builds with all Simulations.
6. Good Exposure to Strain Energy based improvement enablers for all types of works.
7. System Simulations like Cooling module Attachment Stiffness, Liftgate and Stg Wheel FRF and Modes, Sunroof FRF and modes, HVAC imbalance, Rear Seat FRF and modes.
8. Acoustic Cavity Builds for various Vehicles.

PERSONAL DETAILS:

Father's name	: Anil Pralhad Patil
Marital Status	: Married
Date of birth	: 01/08/1993
Languages Known	: Marathi, Hindi and English.
Permanent Address	: 7 Plumeria Drive, Punawale, Pune, 411033

I hereby declare that the information above is true to best of my knowledge.

Date : 10/10/2023

Amol Patil