

# A VARUN

FEA Engineer

RESS Battery Pack Structure & Durability

Contact: 8951836125 | Mail: [varun.anand.official90@gmail.com](mailto:varun.anand.official90@gmail.com)

- 7 years of experience in CAE dealing with automotive structural analysis. Currently part of RESS Battery Pack Structures and Durability team. Experience in development and Implicit non linear static and normal mode analysis of different types of Battery pack and Modules. Have been part of model building and integration of multiple automotive subsystems. Worked closely with different clients on deputations. Published one conference and Journal paper as part of M.tech project.

## Employment Summary

Date	Organization	Role
Sept 2019 till date	Tata Consultancy Services	FEA Engineer
From June 2016 -August 2019	Marutee Design & Engineering Pvt Ltd	FEA Engineer

## Education Summary

Degree and Date	Institute/University	Major and specification
M.Tech. 2015	Cochin University of Science and Technology	(Computer Aided Structural Analysis and Design)
B. Tech 2011	SCT College of Engineering	Mechanical Automobile Engineering

## Career Experience

### FEA Engineer (2019- Present)

#### TATA Consultancy Services

- Part of Battery CAE Team- Responsible for Full Pack integration, Structural analysis of Battery Packs and Modules.
- Leading team performing FE Model Building of Battery packs and Module
- Carrying out Implicit Non linear static analysis of Battery Pack and Module such as Pack assembly simulation, Nominal and Max Preload, Lift analysis of pack from manufacturing to after sales service conditions.
- Carrying out normal mode analysis of Battery pack and modules to find out the critical structural modes so as to further study the dynamic behaviour of pack
- Responsible for preparation of result report for client presentation.
- Worked as a team player in executing projects, actively participate in daily scrum calls.
- Have been training freshers/new joiners in the team for ramping up quickly with the project.
- Have led multiple projects and was responsible for delivering quality results to clients.
- Have suggested process improvement automation for reducing the manual work.
- Received multiple appreciations from team and client for the support extended for quality work.

### FEA Engineer (2016- 2019)

#### Marutee Design and Engineering

- Understanding the client requirements and handling end to end responsibilities of CAE projects by following the standard processes and methods.
- Breaking the project requirements into sub modules, effort estimation of tasks, leading team for FE modelling of various automotive and mechanical components.
- Worked on linear static and model analysis of various automotive sub-assemblies.

- Post processing and report preparation.
- Have been deputed to work at various client location and worked closely with clients.

### Technical Publications

- Varun, A. and C.G. Nandakumar (2014) **Investigations on the Structural Performance of Composites used in Automobile Body**. Presented at the Indian Society for Advancement of Materials and Processing Engineering, National Conference on Composites VSSC, 14<sup>th</sup> and 15<sup>th</sup> November 2014, Thiruvananthapuram.
- Varun, A. and C.G. Nandakumar (2015) **Strength Investigations on the Laminated Windshield**. Published in the International Journal of Innovative Research in Science, Engineering and Technology. Vol.4, Special Issue 12, September 2015 (ISSN (Online):2319-8753

### Software Skills

Engineering Software	HYPERMESH, HYPERVIEW, ABAQUS STANDARD, ANSA
Scripting Language	Python Basics
Application Software	MS Office

### Personal Details

**Permanent Address** : Maruthi ,Tprra-78, Beena Nagar  
Edappally, Kochi- 682024

**Present Address** : 203, Sri Nilaya, Owners Court Layout West  
Sarjapur Road , Bangalore- 560035

**Languages** : English, Hindi, Tamil, Malayalam, Kannada

**Marital Status** : Married

### Declaration

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

**Place** : Bangalore

**Date** : 15-05-2023

Signature