

# Dhaval Patel

## Vehicle Dynamics Engineer

To be a part of an organisation where I can fully utilize my skills and make a significant contribution to success of the employer and at the same time my individual growth.



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## SOFTWARES

Adams Car ( Custom template, static & dynamic analysis)

Adams View (Basic commands, tire & suspension modeling)

MATLAB (Basic programming)

Solidworks (sheetmetal, weldments, drawings & simulation)

Ansys (Static structural & buckling analysis)

MS Office (Word, Excel, Powerpoint & outlook)

## LANGUAGES

English  
Professional Working Proficiency

Hindi  
Native or Bilingual Proficiency

Gujarati  
Native or Bilingual Proficiency

## INTERESTS

Vehicle Dynamics

Multi Body Dynamics

## WORK EXPERIENCE

### Suspension Design Engineer Greenvolt Mobility LLP

07/2022 - Present

Ahmedabad, India

#### Achievements/Tasks

- Straight run bump analysis for suspension optimization of two wheeler in **Adams View**.
- **Static analysis** of front suspension & steering of Quadricycle using **Adams Car**.
- Front and rear **suspension geometry** design for Quadricycle.
- Design of **Jig and Fixture** for various mountings of two wheeler.
- Packaging & location of vehicle components according to aspects of **Vehicle dynamics**.

### Vehicle Dynamics Engineer Ashva All-terrain Equipment

12/2021 - 06/2022

Karnataka, India

#### Achievements/Tasks

- Custom template for rear trailing arm and front suspension geometry in **ADAMS Car**.
- Full vehicle analysis (cornering events) of vehicle in Adams Car.
- **Mechanism analysis** in Creo for Velocity fluctuation in steering linkages.
- Worm gear calculation and concept design for development of EPS considering torque requirements, Motor Capacity and power consumption.
- **FEA and Topology optimization** in ANSYS of various components like steering shaft, column, brackets, rack housing, rack, pinion and aggregates.

## EDUCATION

### B.E. in Automobile L.D. College of Engineering

08/2017 - 07/2021

Ahmedabad, India

### Higher Secondary Hebron Higher Secondary School

07/2015 - 04/2017

Ahmedabad, India

## PERSONAL PROJECTS

### Wheel Alignment Machine (03/2020 - 06/2021)

- Built a wheel alignment machine which gives toe, camber and caster data on mobile phone.
- Filed a patent on wheel alignment machine Patent Application No.: 202121009400 .

## EXTRA CURRICULAR ACTIVITIES

### Achievement Name (03/2019 - 03/2020)

Being a part of ATV making team where we built design, analyze and manufacture the vehicle. Softwares like solidworks and Ansys are used for design and analysis. Adams car and lotus is used for suspension analysis.

### Student Orientation Coordinator

Led the team for student orientation program for 2020 batch.

### Smart India Hackathon (05/2021)

Presented our project in Smart India Hackathon and selected for final round