







Harshal Mehta

A generalist looking for a role that has synergy between mechanical, software & electronics, specifically in the field of ADAS & Active Safety development & testing

Bengaluru 
+91-9769676718 
harshalwork157@gmail.com 
[Harshal Mehta](#) 

Work Experience

Vehicle Dynamics & ADAS Engineer / Xitadel CAE Technologies, Bengaluru

Mar 2022 - present

- Supporting & Servicing Indian OEMs, suppliers & research institutes working on Vehicle Dynamics & ADAS by using CarSim, BikeSim or TruckSim
- Algorithm development of Active Safety controllers such as Antilock Braking System, Collision Avoidance Systems using Simulink & Stateflow
- Model in Loop (MIL) & preliminary Software in Loop (SIL) testing of controllers
- Scenario Generation to facilitate Virtual Homologation of Vehicle Dynamics & Controller testing as per Euro NCAP, FMVSS & ISO standards
- Working on sensor modelling & perception based subsystem for Autonomous Vehicles
- Working on process automation using Python

Modelling & Simulation Engineer / Vioma Motors, Mumbai

Nov 2020 - March 2022

- Focused on physics based mathematical modelling of Electrical and Mechanical systems using Simulink while performing co-simulation with BikeSim & MSC Adams.
- Responsible for FEA & CFD studies required for product development & subsequent optimizations using ANSYS Workbench.

Projects

Senior Engineer / DJS Racing, Mumbai

2017-2019

- Responsible for the overall Electric Powertrain, Drivetrain, Steering & Tire departments of the electric race-car prototype.

Pathik - A Route Optimization Algorithm

2020

- Developed a website using the Heuristic & BnB approach for the Travelling Salesman Algorithm

Research Publications

- Mehta, H. P., Shaikh, P. S., Mallikarjunaiah, U., Kamble, V. et al., "A Comparison Study on Control Strategies for Optimization of an Anti-Lock Brake System Algorithm Based on Tire Force Measurement in Pure & Combined Slip Conditions of an Automobile," SAE Technical Paper 2023-01-0694, 2023, [doi:10.4271/2023-01-0694](https://doi.org/10.4271/2023-01-0694)
- P. Mehta, Shaikh, H. Bhanushali, R. Abraham, J. Soni, R. Birajdar, D. "Design of an Accumulator Container for a Formula Student Electric Race Car." [ICIMA Springer \(2020\): 825- 836](#)

Technical & Software Skills

- | | | | |
|---------------------------|--------------------|------------------------------|--------------------------------|
| • Model Based Development | • CARLA Simulator | • CarSim, BikeSim & TruckSim | • MATLAB, Simulink & Stateflow |
| • Python & C++ | • Vehicle Dynamics | • Model in Loop Testing | • Control Systems |

Education

B.E. Mechanical / Dwarkadas J. Sanghvi College of Engineering, Mumbai.
CGPA- 8.3/10

2016-2020