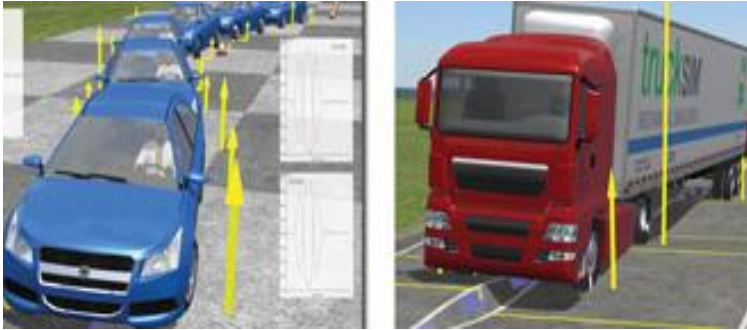


## ADVANCED VEHICLE DYNAMICS AND INTELLIGENT CONTROLS



The Xitadel Group partners with Mechanical Simulation Corporation in bringing advanced vehicle dynamics simulation technology to the CAE community in India. Xitadel offers a comprehensive ecosystem consisting of high-end expertise and services including CAE process automation. Our technology and expertise in CAE is applied to crash, vehicle dynamics, vehicle simulation, lightweight materials, optimization etc. Mechanical Simulation Corporation is the world leader in the development and distribution of advanced software used to simulate vehicle behaviour involving interactions between the 3D dynamic vehicle response, advanced, controllers, driver controls and 3D roads. The automotive research is currently focused on active safety crash detection and avoidance technology using Advanced Driver Assistance Systems, sensors and Vehicle to Vehicle communication.

Technology solutions from Mechanical Simulation Corporation are preferred in industry for virtual or onboard validation of Core vehicle dynamics, ADAS, ABS and ECU algorithm etc. It is widely used for SIL and HIL application as it has compatibility with other technologies and has basic architecture to deliver best in class feature content and robustness. Vehicle dynamics simulation enables engineers to recreate complex situations involving multiple vehicles and sensors with easy-to-use road, path, and scenario building tools. Real-world driving routes can be imported from sources such as Google Maps and detailed 3D road intersections can be assembled. The current seminar will cover capabilities overview of CarSim / TruckSim and BikeSim for vehicle dynamics, SIL and HIL applications.

### Why you should attend

Xitadel's mission is to provide you with access to the latest best practices and technologies. We bring renowned global experts and thought leaders for this purpose. In this seminar you will get an overview of the latest techniques in vehicle Dynamics simulation used by the industry to innovate and develop their products.

### Who should attend

This seminar will be of benefit to Vehicle dynamics analysts, senior engineers and technical specialists, executives and engineering heads that are seeking to understand how Vehicle Dynamics simulation technology is driving product development.

To **REGISTER** for this event, please email to [parmita.mazumder@xitadel.com](mailto:parmita.mazumder@xitadel.com) or call +91-96639 82056

### FREE SEMINAR

#### Date & Venues

17<sup>th</sup> Jan 2018 @ Aloft, OMR - IT Expressway, Chennai

18<sup>th</sup> Jan 2018 @ Zuri, Whitefield Bangalore

24<sup>th</sup> Jan 2018 @ Courtyard by Marriott, Hinjewadi, Pune

## Agenda

Time	Programme	Speaker
06:00 – 06:30 PM	<b>Registration</b>	
06:30 – 06:45 PM	<b>Welcome Speech</b> <b>Introduction to Mechanical Simulation and Xitadel</b>	<b>Vijaykumar Kamble</b>
06:45 – 07:45 PM	<b>Introduction to Key Features of CarSim/TruckSim/ Bike Sim</b>	<b>Ben Duprey</b>
07:45 – 08:00 PM	<b>Tea Break</b>	
07:30 – 08:15 PM	<b>CarSim/ TruckSim for SIL and HIL application</b>	<b>Ben Duprey</b>
08:15 – 09:00 PM	<b>CarSim/ TruckSim for Subsystem level validation and ADAS</b>	<b>Ben Duprey</b>
09:00 – 09:30 PM	<b>Recent Advances and Future road map</b>	<b>Ben Duprey</b>
09:30 PM	<b>Q &amp; A followed by Dinner</b>	

## About the Speaker



Ben Duprey is a technical expert in vehicle dynamics simulation using CarSim, TruckSim and BikeSim. His core competencies extend beyond vehicle dynamics simulations into the domain of Hardware-in-the-Loop testing with various platforms like dSPACE, LabView and Matlab/Simulink.

His skills and expertise have been rewarded with his appointment as the Associate Editor for the SAE International Journals of Commercial Vehicles, Vehicle Dynamics, Stability, and NVH in August 2017.

He holds Master's Degree, Mechanical Engineering from Virginia Polytechnic Institute and State University.