

Ansys EV Workshop

Accelerating EV Design and Development through Virtualization

Date: October 11, 2022

Time: 10:00 AM – 4:30 PM

Venue: Hilton Bengaluru Embassy Manyata Business Park,
Outer Ring Road, Nagawara, Bengaluru, 560045 India

[Register Now](#) ▶ (Limited Seats Available)



The automotive industry is undergoing a disruptive transition with an accelerated move towards electrified, autonomous, and connected vehicles. Research predicts, more than 130 million EVs will be on the road worldwide by 2030. Companies are racing to capture the electric mobility market opportunity. But future success depends on meeting key engineering goals in terms of performance, safety, and cost.

EV development process involves multiple design iterations and several tests to be performed with considerations of range, performance, reliability, safety, and security. Technology complexities demand an integrated development approach to enable front loading development and V&V processes. Engineering teams across the globe are increasingly adopting virtualization, aided through physics-based simulation, to meet the complex design requirements and accelerate product development.

Join this workshop at SIIMC2022 (SAEINDIA International Mobility Conference) and learn about the overall landscape of EV development from complex multi-physics to software. This will key topics around EV virtualization practices applied for component design (battery, motor, power electronics), sub-system / system integration and validation.

Agenda

10:00 – 10:15	Welcome and Introduction
10:15 – 10:45	EV Virtualization Overview
10:45 – 11:30	Battery Design and Development through Simulation
11:30 – 11:45	Break
11:45 – 12:15	Traction Machine Design and Analysis
12:15 – 12:45	Power Electronics and EMC
12:45 – 13:45	Lunch
13:45 – 14:15	Electronics Thermal and Structural Reliability
14:15 – 15:00	Software Development and FuSa
15:00 – 15:15	Break
15:15 – 16:00	Subsystem and System Validation through XiL and Virtual Drive Test
16:00 – 16:30	Open Discussions and Q&A