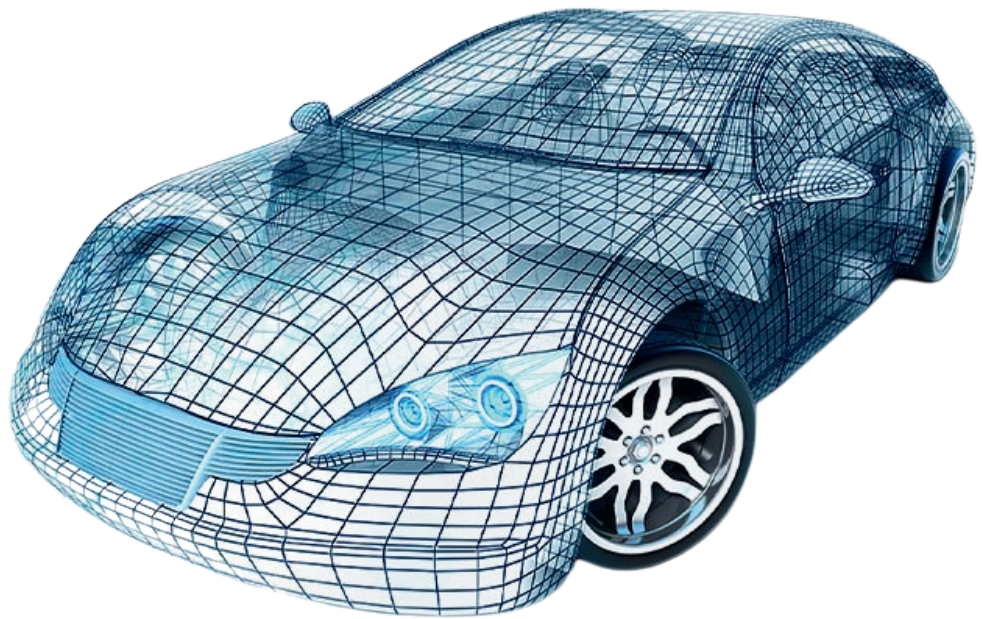


Automotive & EV Conference 2025

Oct 31 - Nov 1



Insightful keynotes and thought provoking plenaries
curated to guide you confidently into the future of
mobility.

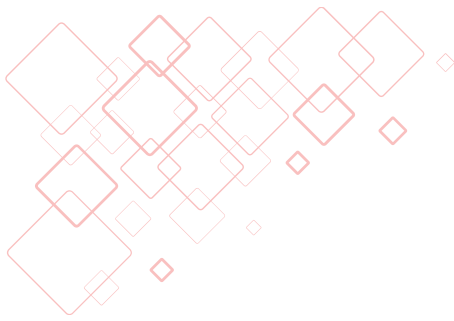


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Technology, Vijayawada



ac25@pvpsiddhartha.ac.in





Automotive & EV Conference 2025

In today's hyper-connected mobility landscape, the automotive industry is no longer built around standalone vehicles, it is evolving into a System of Systems where vehicles, infrastructure, energy networks, digital platforms, and users are seamlessly integrated through data, intelligence, and automation.

As the industry transitions towards electrification, autonomy, connectivity, and sustainability, transformation is no longer about adopting individual technologies. It demands convergence across three critical dimensions:

Technology: Breakthroughs in electric drivetrains, battery chemistry, power electronics, vehicle-to-everything (V2X) communication, autonomous driving, and software defined vehicles are redefining how mobility is designed, delivered, and experienced.

Business: Automotive companies must reimagine value chains, customer engagement models, lifecycle services, and revenue streams to stay competitive in an ecosystem where mobility is increasingly connected, service driven, and sustainability focused.

Talent & Education: The new era of mobility demands a workforce equipped with interdisciplinary capabilities spanning systems engineering, electronics, software, data science, and energy systems supported by reimagined curricula, industry-academia collaboration, and hands on experiential learning.

Discussions & Insights



Electrification & Next-Gen Architectures



Systems Engineering & Functional Safety



Semiconductors and Sensors



Battery, Charging, and Infrastructure Ecosystem



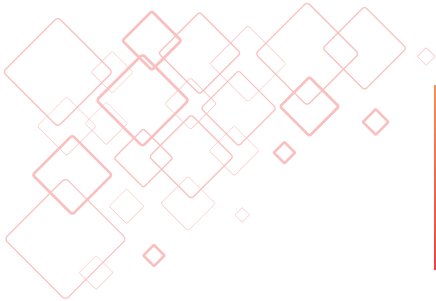
Software-Defined, Connected & Autonomous Vehicles



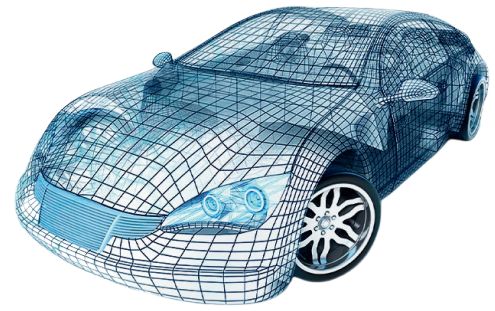
Manufacturing, Talent, and Mobility-as-a-Service (MaaS)

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Agenda tracks

A Vision, Strategy & Ecosystem

These sessions set the strategic context, explore global trends, and define the future direction of automotive and EV transformation.

- Inaugural Session: Welcome, lighting of the lamp, dignitary addresses.
- Opening Keynote: The Future of Automotive & EVs: Technology Trends and Opportunities for India
- Panel Discussion: Future of Mobility: Autonomous, Shared & Electric – The Road Ahead
- Panel Discussion: How Can India Build a World-Class Talent Pool?

B Vehicle Architecture, Design & Powertrain

Sessions in this track focus on the mechanical and electrical foundations of modern vehicles from propulsion systems to battery packs and controllers.

- Vehicle Architectures: ICE, Hybrid, EV – Design Considerations
- Electric Motors & Controllers: PMSM, BLDC, Induction
- Battery Pack Design: Chemistry, Safety & Lifecycle

C Digital Engineering, Software & Intelligence

This track explores the shift from mechanical products to intelligent, connected, and software-defined platforms, highlighting how digital transformation is reshaping vehicle design, operation, and user experience.

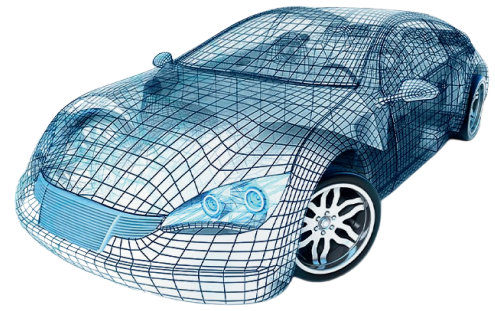
- Software-Defined Vehicles (SDV): Transforming Automotive Design & Business Models
- ADAS & Autonomous Driving
- Industry 4.0 & Smart Manufacturing for Automotive

D Semiconductors, Electronics & Systems Engineering

Dedicated to the electronic backbone of EVs — microcontrollers, chips, sensors, and safety critical systems that enable intelligence, safety, and efficiency.

- Semiconductors & Electronics in EVs – Role of Chips & Embedded Systems
- Systems Engineering for Automotive & EVs: From Ideas to Road
- Functional Safety Design in Automobiles

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Agenda tracks

E IoT & Telematics, In-Vehicle Thermal Comfort

Explores how connectivity, data, and smart thermal systems enhance vehicle intelligence, fleet efficiency, and passenger experience.

- Designing the Future of In-Vehicle Passenger Experience
- Automotive IoT & Telematics: Connected Cars and Fleet Monitoring
- Designing for In-vehicle thermal comfort

F Charging, Infrastructure & Energy Ecosystem

Sessions exploring how charging standards, smart grids, renewable integration, and infrastructure innovation enable EV adoption at scale.

- EV Charging Standards & Smart Charging

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