Automotive at GTC

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The Conference for the Era of AI

Discover how AI and the unlimited potential of NVIDIA DRIVE® and NVIDIA Omniverse™ are transforming the automotive industry. Explore sessions on autonomous driving, generative AI, large language models, simulation, safety, design, manufacturing, and more—now available at NVIDIA On-Demand.

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GTC 2024 Keynote

See NVIDIA founder and CEO Jensen Huang share the latest breakthroughs in accelerated computing, generative AI, simulation, and cloud technologies.

Watch the Replay
### DRIVE Developer Day

**Accelerating the Shift to AI-Defined Vehicles**  
**Xinzhou Wu**, VP of Automotive, NVIDIA  

**Achieving Scalable Autonomous Vehicle Driving With NVIDIA DRIVE**  
**Sarah Tariq**, VP, Autonomous Driving Software, NVIDIA  

**Advancing Automotive AI With Large Language Models and Vision Language Models on NVIDIA DRIVE**  
**Rui Zhuo**, Senior Software Manager, NVIDIA  

**Accelerating Autonomous Vehicle Development With High-Performance AI Computing**  
**Norm Marks**, VP, Automotive Enterprise, NVIDIA  

**Building the Next Generation of Autonomous Vehicles in Simulation**  
**Matt Cragun**, Senior Product Manager, DRIVE Sim, NVIDIA  

**Advancing Autonomous Vehicle Simulation With Omniverse and Generative AI**  
**Gautham Sholingar**, Senior Manager, Product, NVIDIA  

**Improving Safety With Software-Defined Vehicles**  
**Jonas Nilsson**, Senior Engineering Manager, AV Safety, NVIDIA  

### AV Development and Simulation

**Revolutionizing AV Development With Foundation Models**  
**Marco Pavone**, Director, Autonomous Vehicle Research, NVIDIA  

**Addressing AV Deployment Policy Issues and Introducing a New Digital Proving Ground**  
**Joseph M. Kolly**, Director of the Transportation Innovation Center, MITRE  

**Achieving Better Accuracy in 3D Occupancy Prediction for Autonomous Driving**  
**Jose Alvarez**, Director, Research, NVIDIA  
**Zhiding Yu**, Senior Research Scientist, NVIDIA  

**Open-Source Autonomous Vehicle Simulation With CARLA**  
**German Ros Sanchez**, Director of Simulation Ecosystem Development, NVIDIA  

**The Nuro Driver: An AI-First Autonomous Driving System**  
**Tilo Schwarz**, Head of Autonomy, Nuro  

**Achieving Mass Commercial AV Deployment With Real-World and Virtual Validation**  
**Sagar Behere**, VP of Safety, Foretellix Ltd.  

**Commercializing Mass-Produced Autonomous Driving Solutions**  
**Maxwell Zhou**, CEO, DeepRoute.ai  

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Minimizing Manual Data Labeling in Autonomous Driving

**Antonio M. López**, ICREA Academia Professor Computer Vision Center (CVC), Univ. Autònoma de Barcelona (UAB)

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AI Drives Innovation and Development of Automotive Technology

**Jia Peng**, Head of Intelligent Driving Technology R&D, Li Auto  
**Chen Wei**, Chief Scientist of Intelligent Space Algorithm, Li Auto  
**Click Cheng**, Technical Director, Automotive Industry Data Center, NVIDIA  
**Joey Wang**, GPU Accelerated Computing Software Development Manager, NVIDIA  
**Martin Chi**, TSE Team Senior Technical Manager, Deep Learning, NVIDIA  
**Phoebe Li**, Automotive Industry Developer Relations Manager, NVIDIA

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Closed-Loop System of Autonomous Driving Data Supported by Foundation Models

**Dr. Yong Chen**, Director of Data Intelligence Center, Geely Automobile

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Enhancing AI-Based Perception Testing With Radar Sensor Simulation

**Lionel Bennes**, Lead Product Manager, Ansys

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Reliable Multi-Modal Perception in Complex Urban Multi-Agent Settings

**Daniel Watzenig**, Professor and CTO, Graz University of Technology and Virtual Vehicle Research

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A Foundational Driving Model Trained Using Billions of Miles of Real-World Driving Data

**David Julian**, Chief Technology Officer and Co-Founder, Netradyne

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Introduction to Autonomous Vehicles

**Aaraadhya Narra**, Senior Product Manager, Autonomous Vehicles, NVIDIA

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Design and Manufacturing

Automotive Design Fueled by Generative AI

**Ashlee Martino-Tarr**, 3D Workflow Specialist, NVIDIA  
**Peter Pang**, Senior Product Manager, NVIDIA

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Transforming Factory Planning and Manufacturing Operations Within Digital Mega Plants

**Benjamin Huber**, Head of Advanced Automation & Digitalization, Business Area UX, Continental

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Unifying & Accelerating Automotive Design Workflows

**David Defianas**, Fellow in Immersive Technologies, Stellantis

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Innovative Applications of Real-Time 3D and AI in the Automotive Industry

**Zhou Huang**, Senior Director, Lotus Tech

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Driving Accessibility to High-End Graphics With BMW and CloudXR

**Xaver Freiherr Loeffelholz von Colberg**, Product Owner 3D AppStore, BMW Group
Retail Configurators

Using CloudXR to Deliver High-Performance, Scalable Customer Retail Experiences for Aston Martin

Chris O’Connor, Executive Director, ZeroLight

Building a 3D Product Configurator With USD and Omniverse

Ashley Goldstein, Developer Advocate, Omniverse, NVIDIA
Devin Lafontaine, Senior Product Manager, Omniverse, NVIDIA
Martin Karlsson, Principal Product Manager, Omniverse, NVIDIA

High-Performance Computing

Accelerating Aerodynamics Analysis at Mercedes-Benz

Erich Jehle-Graf, Mercedes-Benz
Ian Pegler, Global Business Development - CAE, NVIDIA
Liam McManus, Technical Product Manager, Siemens

Revolutionizing Industrial Fluid Dynamics With Advanced Deep Learning Techniques

Bradley Safnuk, AI/ML Technical Leader, Ford Motor Co.

How GM Motorsports Accelerated External Aerodynamics Analyses With AI Physics in the Cloud

Joris Poort, Founder & CEO, Rescale
Logan McLeod, Motorsports Software Engineering, General Motors

Live From GTC

A Conversation on the Latest Automotive Innovations

Danny Shapiro, VP, Automotive, NVIDIA
Dean Takahashi, Lead Writer, VentureBeat

Volvo Cars Fireside Chat on Safety, AI, and More

Ali Kani, VP & General Manager, Automotive, NVIDIA
Alwin Bakkenes, VP & Head of Software Engineering

Aurora Discusses Autonomous Trucking

Danny Shapiro, VP, Automotive, NVIDIA
Yanbing Li, SVP of Software Engineering, Aurora

Zoox Shares Approach to Rider Mobility and Recent Milestones

Ali Kani, VP and GM of Automotive, NVIDIA
Aicha Evans, CEO, Zoox