virtual vehicle

FIELDS OF ACTIVITY

AUTONOMOUS SYSTEMS

featuring vifware Automation Suite - an open approach to automated vehicles and other automated systems with maximum scalability, flexibility, and modularity

OUR KEY EXPERTISE & USP

- Development, advancement, and tailoring of AI-powered autonomous systems to increase safety, reliability, and end-user acceptance
- Successful application in various domains: automotive, rail, health, defense, maritime, logistics, aerospace

OUR SKILLS

- Perception, planning, decision-making, AI (generative and agentic)
- Simulation, SW development, HW integration, HW-SW co-design, testing of AD systems
- 50 employees, mainly on senior level

TASKS, METHODS & TOOLS

- **Perception:** Algorithms based on sensor setup camera, lidar, radar, etc.) and use case (SLAM, object detection, etc.)
- **Planning:** From low-speed offroad, driving on public roads up to autonomous racing
- **Simulation:** Compatible with different simulation environments (IPG CarMaker, Carla, Unity, etc.)
- **AI:** Local open-source and commercial generative/agentic AI

KEY PARTNERS (excerpt)

Infineon, AVL, waveye, iamts, Apex.AI, CERTH Centre for Research & Technology Hellas, austriatech, CCAM, The Autoware Foundation, NVIDIA, Stanford University, TU Graz, TIER IV

OUR OFFER ...

- Design and selection of HW architecture, components, processing capabilities, sensor setup
- Tailoring of SW modules, algorithms, and communication demands (perception, planning, control)
- Perception, planning, control layer design, simulation, and implementation
- Integration of foundation models (FMs)

... AND YOUR BENEFITS

- Benefit from our vifware Automation Suite, an open approach to automated vehicles and other systems with maximum scalability, flexibility, and modularity
- System tests with SAE Level 4 vehicles with road clearance and other versatile platforms
- Access to test equipment, certified proving grounds for EuroNCAP test and public road tests
- Beyond state of the art applied research

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Find out more: