Detroit Engineered Products (DEP) is an engineering services, product development, software development, consulting and talent acquisition company. Founded in 1998 in Troy, USA, DEP has expanded globally with operations in Europe, China, Korea, Japan and India. DEP employs an accelerated and transformed product development process, facilitated by our proprietary platform, DEP MeshWorks, which significantly reduces product development time across multiple industries.

Detroit Engineered Products (DEP) has become a pioneer in revolutionizing manufacturing processes across a wide range of industries. With a focus on innovation and efficiency, DEP integrates MeshWorks CAE into manufacturing processes in the automotive, aerospace and consumer products industries. Using advanced simulation techniques and AI/ML, DEP enables companies to more efficiently optimise their product design and manufacturing processes, improve performance and dramatically reduce time to market. DEP's CAE solutions enable manufacturers to achieve higher quality standards while reducing the cost of physical prototyping and testing, and significantly shortening development time.

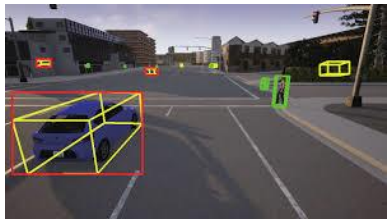
DEP's holistic approach to CAE goes beyond traditional manufacturing boundaries to provide comprehensive solutions that span design validation, process optimisation and performance improvement. Using state-of-the-art simulation tools, DEP enables companies to predict and mitigate potential problems early in the development cycle, resulting in faster innovation cycles and more reliable products. DEP's MeshWorks CAE solutions are driving transformational change across industries, enabling manufacturers to stay ahead in today's competitive landscape.

DEP

Smarter solutions. Realized.

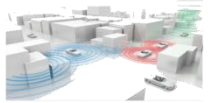
CONNECTIVITY & ADAS SOLUTIONS

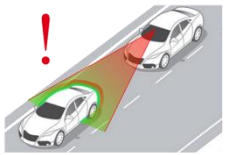
ADAS Modeling & Simulation



- Carla environment modeling & simulation
- Developing environment testing maps
- Development of test models
- Co-simulation (Carla/Simulink/ROS)
- Integration of different simulation models

Vehicle Test Drive



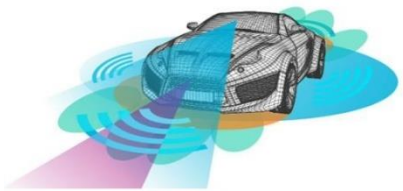


- Scenario based testing following NCAP
- Vehicle Drive Strategy and Implementation
- Vehicle Instrumentation (Drive-by-wire, GNSS, LiDar, NVIDIA AGX)
- Traffic Data Collection
- Video and Test Data creation & validation

Validation

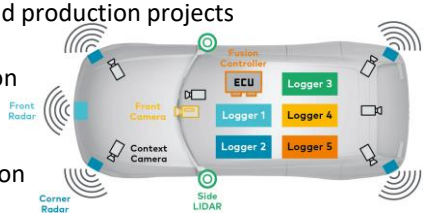
- Functional Safety Analysis
- System Level Solutions for SOTIF

System Integration



- Electrics, Electronics & Software Integration Testing
- ECU Integration Testing
- Prototype to production
- Feature level Functional Test performance
- Integrated Feature vehicle level performance testing

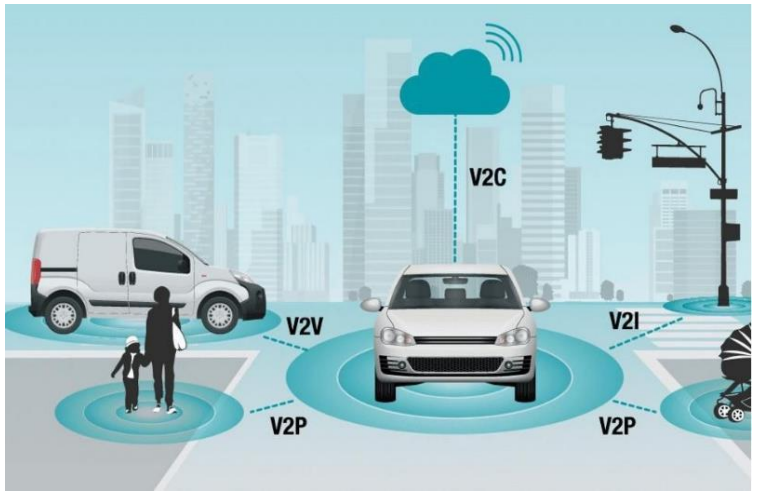
ADAS Controller Integration and System level testing



•Development of Custom ADAS circuits for research and production projects
•Signal conditioner and signal processing unit
•Camera Systems support for testing and data collection
•LRF processing support
•Master ADAS control unit development which can interface with multiple sensor and perform sensor fusion

Vehicle Connectivity

Intelligent range of customer-centric and manufacturer-beneficial solutions



• **Vehicle to Vehicle (V2V)** – Exchange of real-time data done in wireless mode. This data would include speed, location, direction of travel, braking, and loss of stability. Comparatively, information transmitted via V2V technology can come from other cars ahead in the path or even visually hidden one in the vicinity. V2V communication has a longer capability range (300 meters) than ultrasonic sensors, cameras, and radars, and can therefore alert drivers of dangerous situations earlier and more effectively.

• **Vehicle to Everything (V2X)** – V2X connectivity is essential in helping the vehicle make critical decisions. This includes vehicles communication with other vehicles (V2V), infrastructure (V2I), pedestrians (V2P), and networks (V2N). The infrastructure data typically broadcasts traffic conditions and emergency information to drivers. This data can quickly be processed to provide quicker response times for better traffic management and road safety. In turn, these data which are uploaded in cloud is utilized and act as backend for smart cities to power their intelligent transportation systems, or by countless use cases that improve the customer experience.

As a trusted technology partner in mobility sector, DEP provides connected vehicle services to growing connected car ecosystem and infrastructure. Additionally we do supports various design & development projects to optimize vehicle functions.

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