

Detroit Engineered products (DEP), is an engineering services, product development, software development, consulting and talent acquisition company. Since its inception in 1998 in Troy, USA, DEP is now a global company with footprints in Europe, China, Korea, Japan, and India. DEP uses the accelerated and transformed product development process, accomplished by utilizing our proprietary platform, DEP MeshWorks, which rapidly reduces the development time of products for all segments. The MeshWorks platform delivers tool sets that accelerate virtual validation activities associated with powertrain development across all stages for both conventional and electric powertrain.

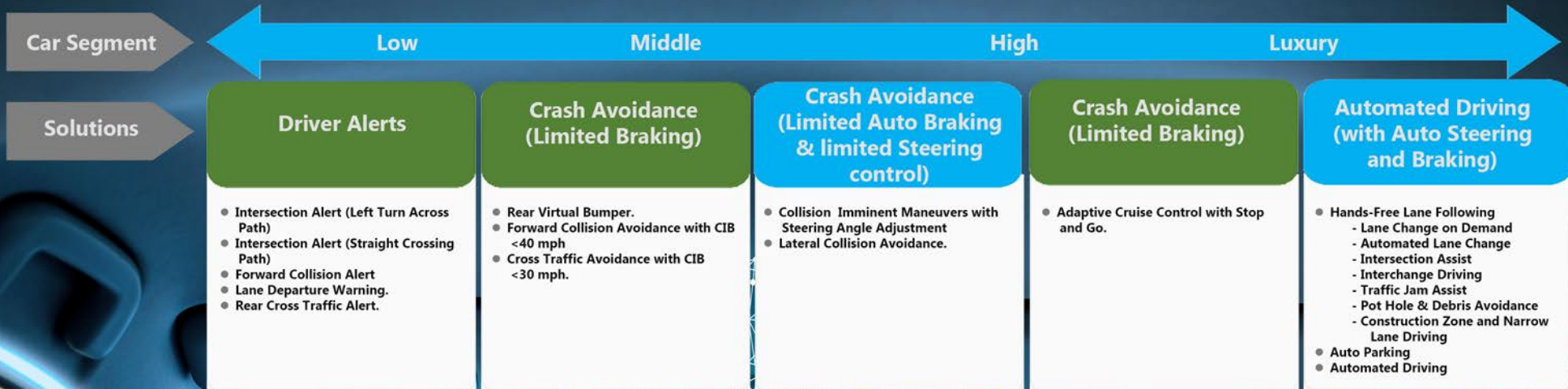


Latest MeshWorks, features modules and tools that adds substantial depth and robustness for FE/CFD pre & post processing and customizable engineering process automation environment, all in an easy to use graphical interface.

MeshWorks core integral pillar are its main differentiators, the integrated modeler, parametric modeler, associative modeler and automated modeler. The benefits of these core functionalities are reduced CAE model building time upto 40 to 50%, 2x to 10x time reduction for all processes, performance improvement, design optimization, weight reduction, etc.

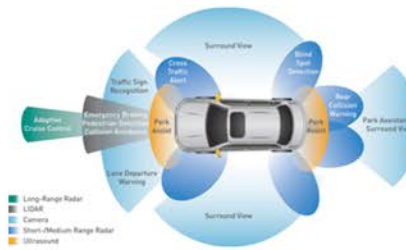


ADAS SOLUTIONS



Modeling & Simulation

- MIL model based development, simulation & Verification
- Model performance test
- Development of test models
- Co-simulation (Software-In-The-Loop)
- Integration of different simulation models



Vehicle Drive Testing

- Definition of user scenarios
- Vehicle Drive Strategy and Implementation
- Vehicle Instrumentation
- Traffic Data Capturing
- Video and Test Data creation & validation



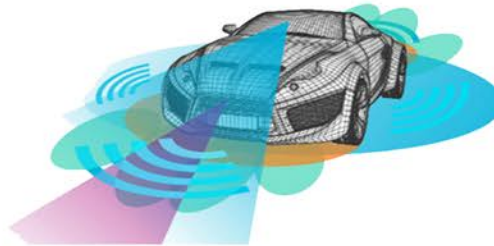
Validation

- Desktop Level
- System Level



System Integration

- Electrics, Electronics & Software Integration Testing
- ECU Integration Testing
- Migration from Micro Autobox to ECU
- Feature level Functional Test performance
- Integrated Feature vehicle level performance testing



Supporting Electronics under ADAS Technology:

- Development of Custom ADAS circuits for research and production projects.
- Signal conditioner and signal processing unit.
- Camera Systems.
- LRF processing unit and interface.
- GPS and Accelerometer sensors signal processing.
- Master ADAS control unit development which can interface with multiple sensor and perform sensor fusion.



Complete Pre & Post Processor

- Comprehensive FE/CFD pre & post processor with powerful tools for CAD clean-up, meshing (shell, tetra, hexa, hybrid, etc.), highly automated model assembly and results processing.
- Complex FE/CFD can be generated 30% faster and with better quality than other competitor products.

Customized Engineering Process Automation

- Customer CAE processes can be rapidly automated using a fast Record>Create-GUI>Plumb>Publish process.
- 2X to 10X time reduction can be expected for processes that are repeatable.

CAD & CAE Morphing Technology

- Reduces Finite Element (FE) & Computational Fluid Dynamics (CFD) model building time by 50% to 80%.
- Generated morphed CAD models representing optimized designs very rapidly and form the main link between CAE & Design teams.

Parametric CAE Technology

- Rapidly converts FE & CFD models to intelligent parametric CAE models, enabling fast design iterations & Design of Experiment (DoE) studies.
- Most comprehensive parametrization engine addressing several categories of parameters such as shape, gage, material, spot welds, seam welds, adhesives, design features, etc.

Parametric CAE Technology

- Enables Multi-Disciplinary Optimization to meet design targets, minimize product weight, and minimize manufacturing cost using parametric CAE models.



DEP
MeshWorks 8.0

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