



Engineering Design Services



About Us

DSI TECHNOLOGIES, an Indo-Japanese Company, based in Technopark, Trivandrum, Kerala, India is a pioneer in the field of Engineering services, serving global corporations in their pursuit to innovate better and faster. Our mission to be an 'Icon' in the Engineering Design Services industry has gained us several long term business associations with esteemed Japanese OEMs / other clients. We believe that our USP is our high Quality management that enables us to deliver top quality services that exceed our Customers' requirements. We have the right potential to set up a dedicated Offshore Engineering Development Center (OEDC) to work as an Extended Design Arm.

Business Areas

- Full Vehicle CAE modeling
- CAE simulation- Safety & NVH evaluation
- Full service design & CAD
- Software sales & Technical support
- Staffing Services

Location

Situated in Technopark, Trivandrum – India's largest and most advanced software technology park. Technopark has emerged as a key IT player of this region housing excellent infrastructure in terms of built-up space, reliable power, data communications and a host of other world class facilities.

Our Competencies

CAE

- Safety Crash CAE analysis [Front, side & rear impact]
- NVH CAE analysis [Rigidity, Vibration, Frequency response]
- Thermal signature simulations [Transient & Steady state]
- Fatigue & Durability analysis
- Design sensitivity analysis
- Multi-functional optimization
- Countermeasure studies to meet design targets
- CFD modeling & analysis

CAD

- Parametric modeling
- Supporting digital prototypes of subsystems to vehicle design
- Packaging studies for subsystems
- Surface CAD model for interior trims, body sheet metal components
- CAD conversion services

CAD/CAE Expertise

MSC/Nastran
LsDyna
Hypermesh
Visual Crash Dyna

SolidWorks
Ideas
Pro/Engineer

Core Strengths

- Automotive Safety Crash / NVH CAE Modelling & Simulation
- Expertise to Develop high precision models of BIW, Closures, Engine, Transmission, Seating systems, Suspension, Trims, etc.

Facilitating Product Supremacy

Our Engineering customers work closely with us and receive models and detailed reports providing accurate CAE analysis simulation results. We have also utilized DoE techniques to assist our customers in the initial stage of design. Since we apply the most advanced software tools and high-end workstations, our simulations and solutions are delivered quickly and efficiently.

Benefits

Industry users chose our services for many reasons including

- Accelerated engineering development
- Cost competitiveness against Japanese and Indian competitors
- Improved, more reliable product designs
- Fewer engineering and prototype iterations
- Efficient Resource Co-ordination

These benefits form the corner stone of DSI Technologies' steady growth in Engineering services domain.

Key Industries we Serve

Automotive

We have been pioneers in providing engineering services for advanced numerical simulation in the areas of Vehicle Crash, NVH, Durability, and Computational Fluid Dynamics.



Heavy Engineering

We have successfully delivered projects for the heavy engineering Industry. These include FEM Modeling and simulation of Designs for heavy trucks and earth moving equipment.



Transportation

We have robust competency in the CAE modeling and analysis of Train body structures for crash and rigidity studies.



Sports Equipment

We also have successfully completed projects involving the design optimization of golf clubs for restitution and noise reduction using CAE techniques.



Case Studies

A partial list of the Case studies executed for our OEM Clients

- CAE modeling and Vibration analysis of an Exhaust System assembly
- Body-In-White modeling for Safety CAE analysis and NVH analysis
- Bending & Torsion rigidity of Body-In-White Rigidity analysis of Closure components
- Design sensitivity analysis of Joints of Car
- CAE modeling of Seating systems
- CAE Modeling of Train for Crash analysis

Vision

"To be the most preferred Engineering & IT services company providing end-to-end solutions to automotive & other customers world wide"

Mission

"To become the leading engineering design & IT solutions provider for the automotive and engineering world by utilizing state-of-the-art 3D digital computer technologies." We will strive to fulfil and exceed customer needs with speed, innovation and high value addition.

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