



## DESIGNCAE

We offer expert consulting and execution for projects on Machinery, Automotive and Aerospace components design.

**WE ARE A BLEND OF  
CLASSICAL AND  
TECHNOLOGY  
PROFESSIONALS.**

## OUR SERVICES

### CONSULTATION

We provide consulting on design optimization, strength and durability of components involving structural, thermal, vibration, composite materials, CFD flow, impact/crash calculations

### OUR TEAM

The best people within the industry, who are self driven and passionate, that makes our team trust worthy and reliable for the customers.

### OUR APPROACH

Our approach to the problems are unique, quality conscious and problem solving.

[DESIGNCAE.COM](http://DESIGNCAE.COM)

# OUR PROJECTS

*What we executed so far ?*

With CAE : FEA

Design optimization of chassis frames on trucks.  
Conversion of welded to casting parts.  
Housing design for structural strength and vibrations.  
Wind tunnel components design.  
Modal and Harmonic analysis of feeders.  
Thermal stress analysis of engine parts.  
Transit case design for lift, bump and drop test.  
Crash analysis of automotive plastic parts.

With CAE : CFD

Optimization of Heat exchangers.  
Ceiling fan blade angle optimization for maximum air delivery.  
Modelling of chargers air coolers.  
Combustion modelling for Hydrocarbon fuels and LNG.  
DPM - CFD modelling of mixing tank and fluidized bed reactors.  
CFD modelling of complex flows in industrial applications like multiphase flows, rotating and reacting flows.

*We look forward to work with you!*



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# PROJECT EXECUTION

*That we can offer from our consultants*

With CAE :

Crashworthiness, Automotive safety in Seating, Interior systems, FMVSS, ECE R regulations.

Crash analysis of automotive subsystems and full vehicle

Model integration for various automotive subsystems

Assesment for crashworthiness, automotive safety as per global regulations (fmvss,ncap,ece r, ais standards)

Experties in seating, interior subsystems and full vehicle.

Thermo-Mechanical analysis on Automotive components

Durability of Automotive components

Simulation of Induction heating of Turbine shafts

Thermal stress analysis of engine parts.

THANK YOU!

*We look forward to work with you!*



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