

Mechanical Engineering

Stress Analysis Services Deck

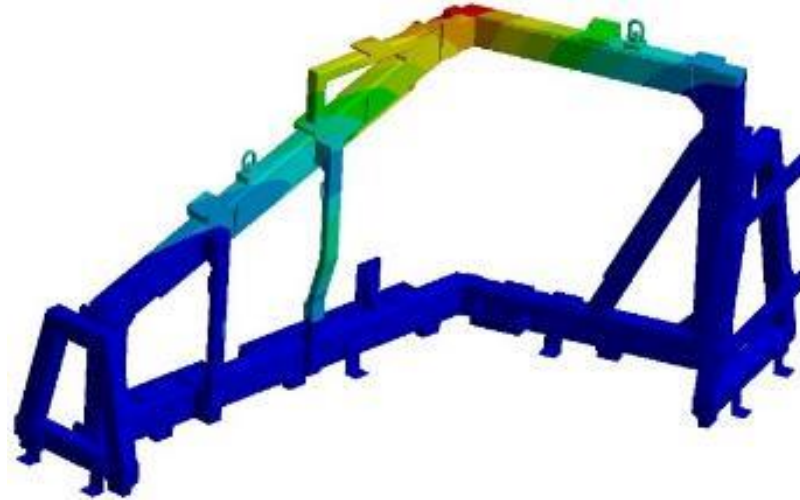
Aerospace & Automotive



CAPABILITIES

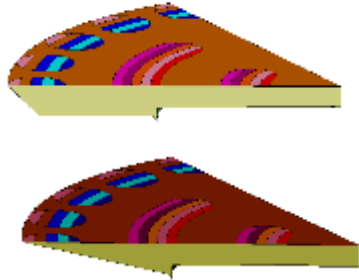
- Plant and Process Engineering Services
- Steel Detailing Services
- **Stress Analysis & Finite Element Analysis (FEA)**
- **Engineering Design and Drafting services**
- Piping Design & Drafting Services
- Engineering Data and Documentation
- Fire and Safety Design and Drafting





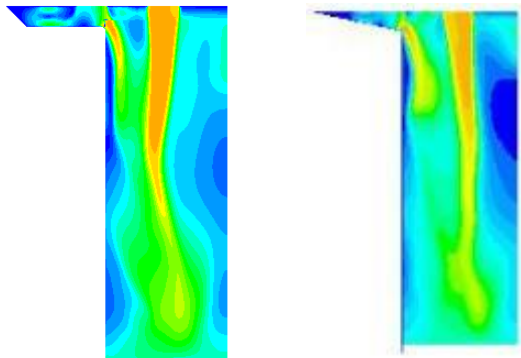
- FEA of structure frames for various loading conditions according to its applications
- FEA of Platforms for provided UDL

STRESS ANALYSIS SAMPLES ON FRAMES & SUPPORTING STRUCTURES FOR AEROSPACE

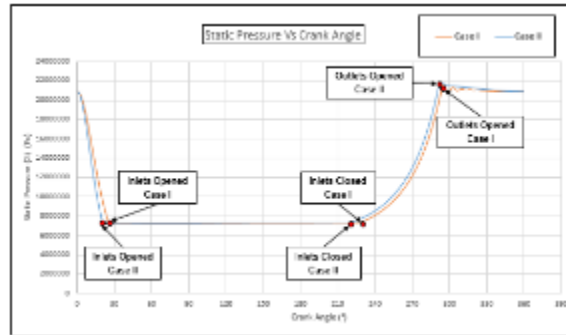


Base Case

Modified Case



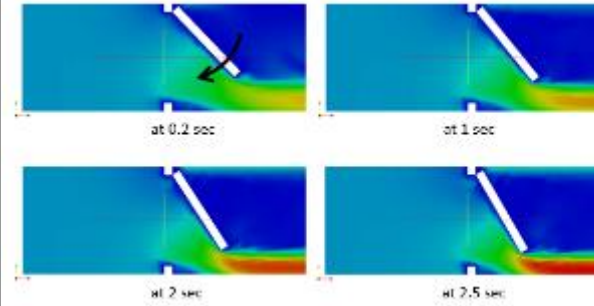
CFD for
Piston motion
in Compressor



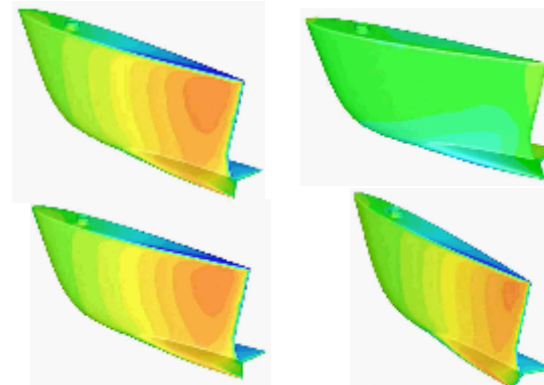
Modifications made for improving the volumetric efficiency

Compressor Piston Motion

Valve Motion



Hull Motion



CFD For Valve Motion

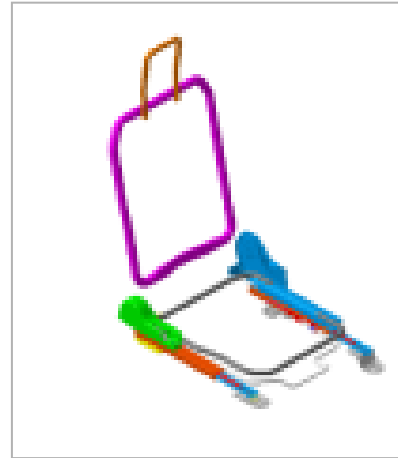
MOVING DEFORMING MESH



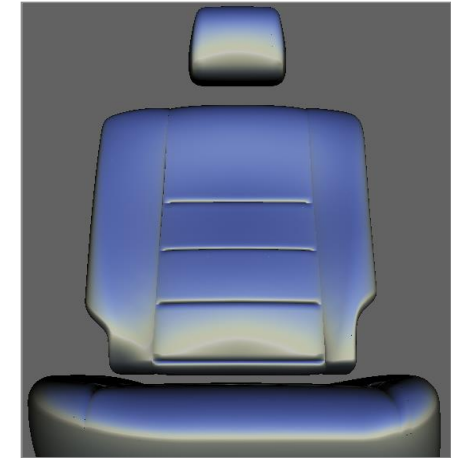
PHOTOREALISTIC RENDERING SAMPLE



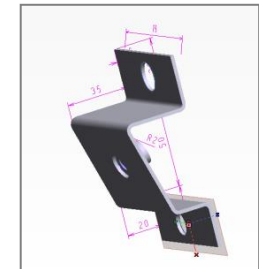
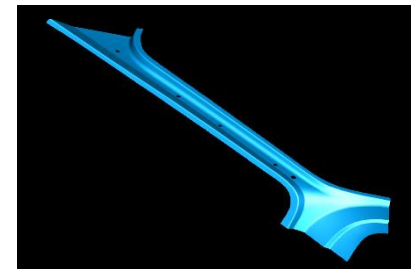
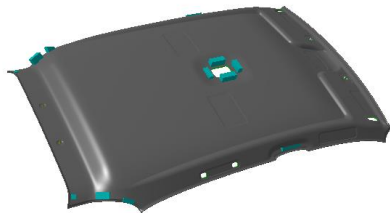
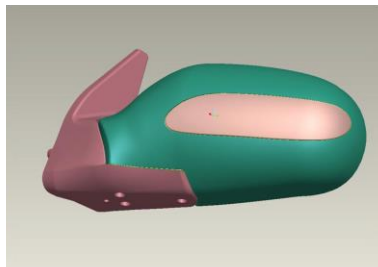
Design Modification of a seat for car



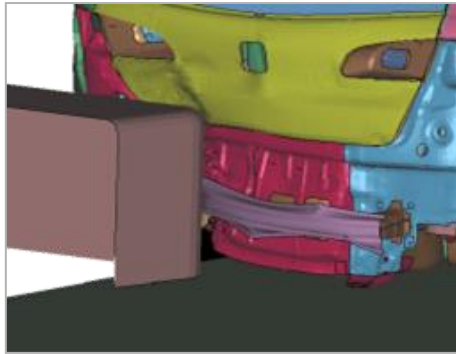
CAD Design projects



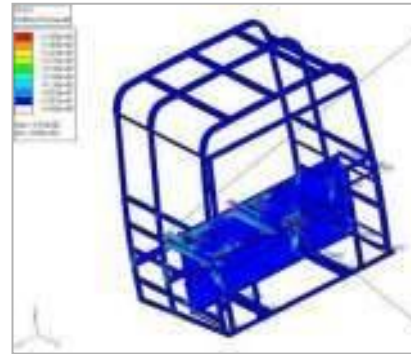
Seating system Design & Development



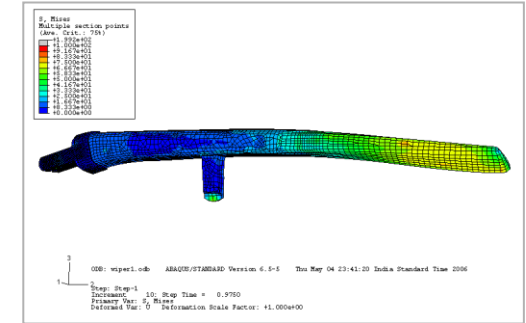
AUTOMOTIVE CAD DESIGN & MODELLING



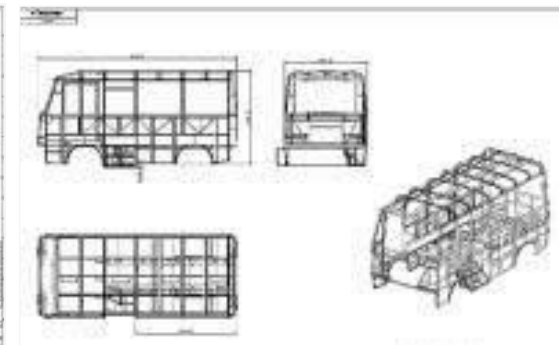
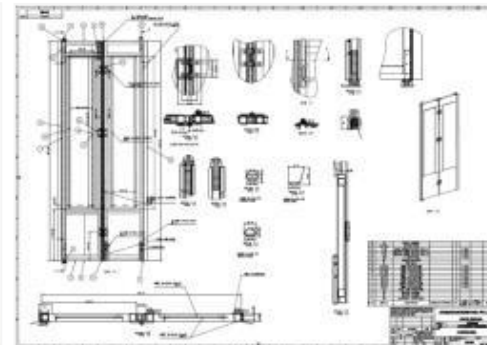
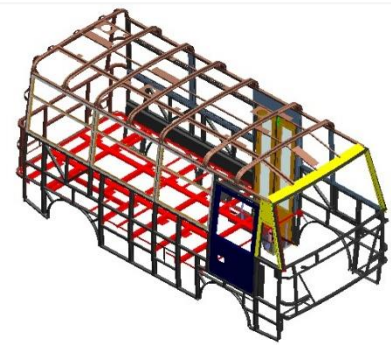
Rear bumper impact test
Simulation of a car



Stress Analysis of Bus
Rear Boot compartment

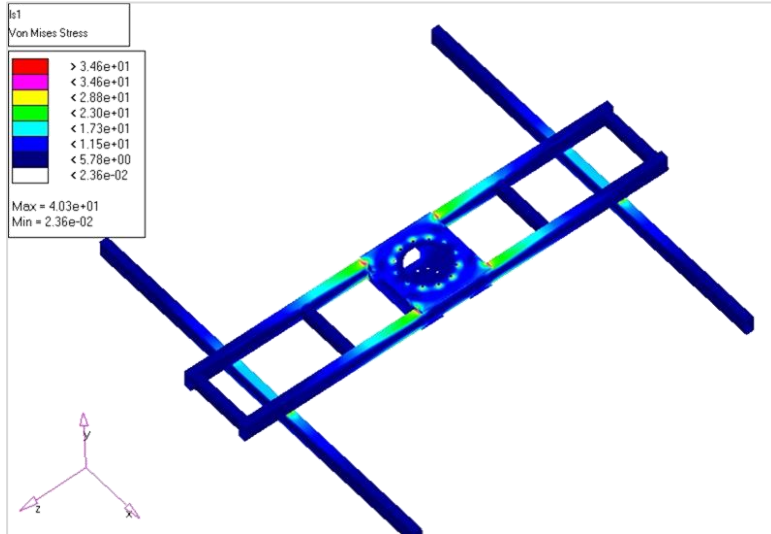


Stress Analysis of a
plastic wiper assembly

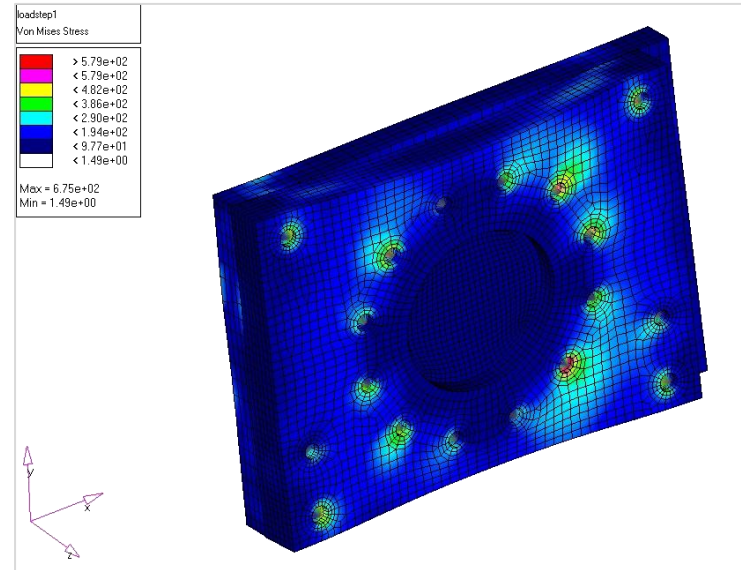


3D CAD model, Detail engineering, Trimmings & 2D Drafting of 25- & 15-seater minibus body, Parts, Sub Assly & preparation of BOM including all doors & stairs.

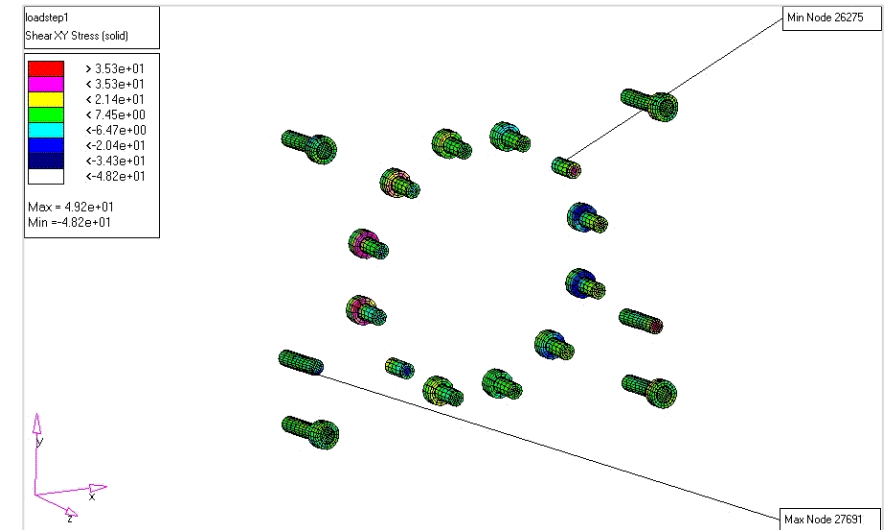
AUTOMOIVE FEA SAMPLES



Stress analysis on Tool Holder Arm of a Robot

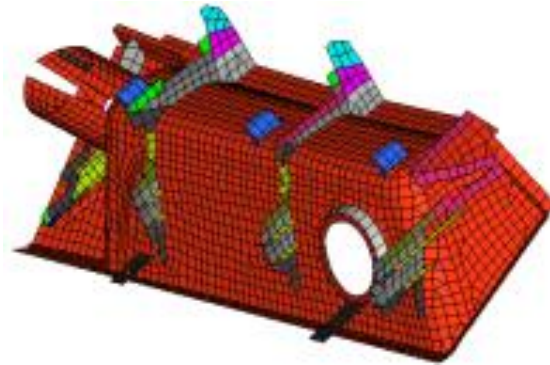
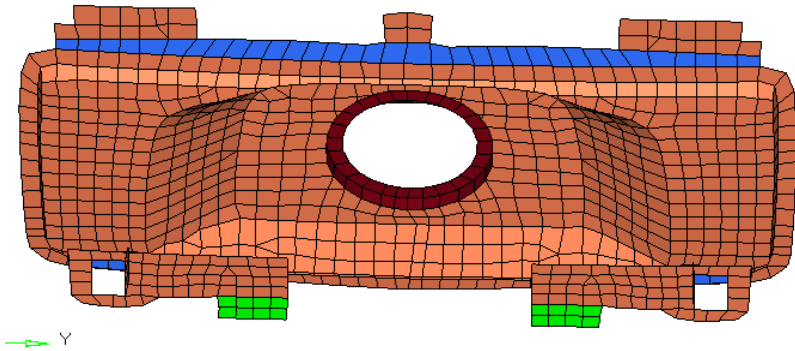
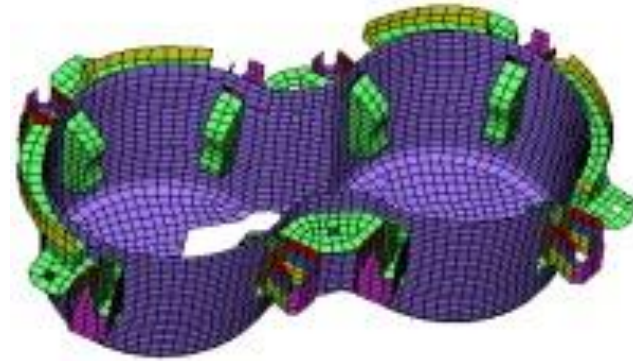
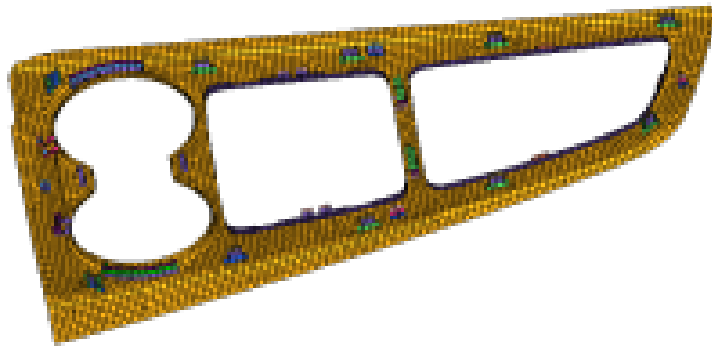


Stress analysis of mounting plate of robot tool holder arm plate



Stress analysis of mounting bolts to establish the factor of safety

FINITE ELEMENT ANALYSIS (FEA) SERVICES



FE MESHING - AUTOMOTIVE INTERIOR & EXTERIORS

CAD & FEA SOFTWARE



AcuSolve

