CLASS A-SURFACE

❖ **CAS (Computer Aided Styling) with Class A-Surface Design in ICEM & CATIA**

✓ 3D MODEL – CLASS A

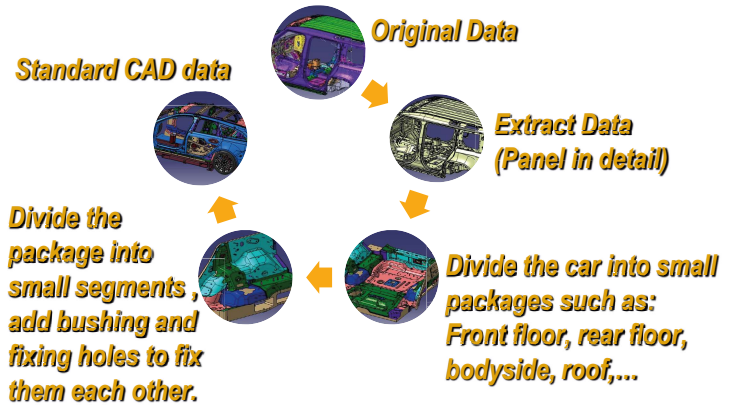✓ 3D MODEL - ZEBRA

CAD DATA PROCESSING

❖ **Participated in design for Honda, Nissan, Suzuki, Mazda.**

Original Data

Extract Data (Panel in detail)

Divide the car into small packages such as: Front floor, rear floor, bodyside, roof,...

Divide the package into small segments, add bushing and fixing holes to fix them each other.
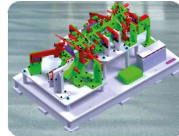
Standard CAD data

JIG DESIGN

✓ JIG for checking the welding.

✓ JIG for checking the shape and assembly position after welding.

❖ **Actual result**
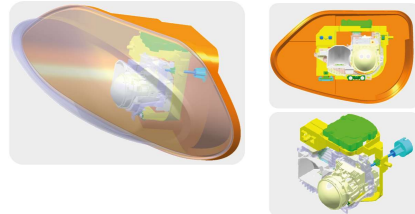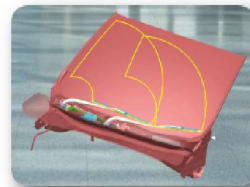
✓ Other JIG

LAMP DESIGN

❖ **Joined in designing Car and Motorcycle lamp.**

DESIGN FRONT AND REAR WIPER

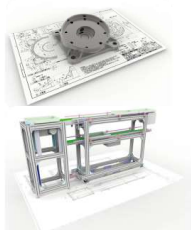❖ *Previously involved in research and development of Honda, Nisan, Suzuki, Mazda wiper.*

3D DESIGN IMPROVEMENT

❖ *Enhance the shape design according to customer requirements.*

REVERSE ENGINEERING

❖ *High quality surface in reverse engineer (our strength).*
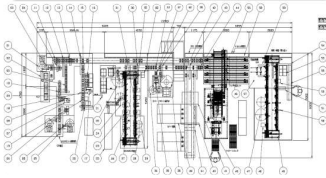
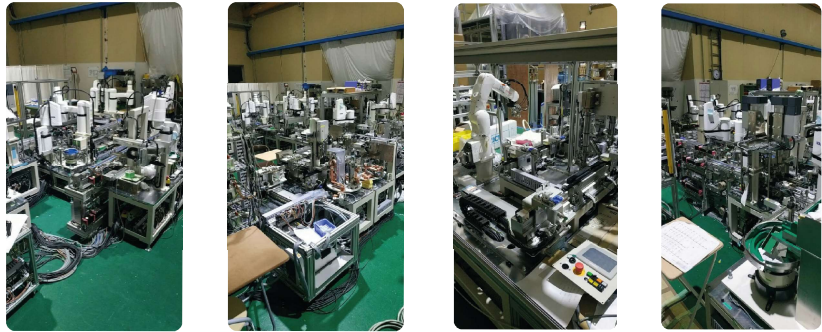✓ **Physical object → scanned data**

❖ Parametric Model

❖ Hybrid Surface

❖ NURBS Surface

2D⇔3D-CONVERSION

✓ Convert 3D models to 2D drawings.
✓ Technical drawing 3D representation model.
✓ 3D composite/assembled model.
✓ Simulation of movement and motion processes.

AUTOMATED ENGINEERING SOLUTION VIETNAM JSC.

OUR CAD/CAM/CAE BEST PRACTICES SERVICES

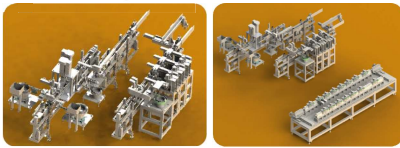

ASSEMBLY LINE DESIGN

❑ *Assembly line drawing*

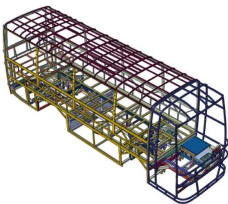❖ *Actual result*

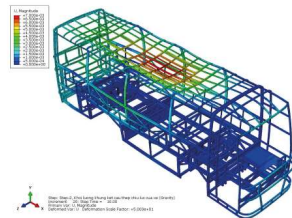❖ *CATIA design data*

STATIC STABILITY ANALYSIS
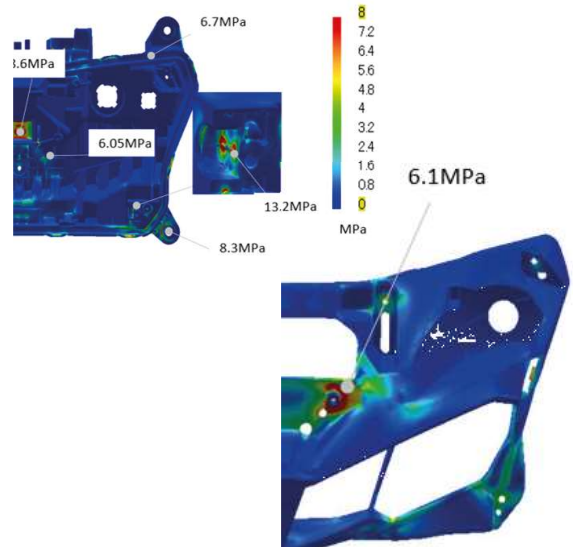
❑ *Static stability analysis for the frame will bus*

❖ *Model*

❖ *Analysis for strength and displacement*

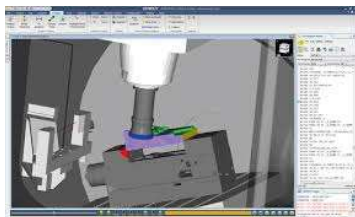❑ *Frequency response analysis*

6.7MPa
8.6MPa
6.05MPa
13.2MPa
8.3MPa
6.1MPa

8
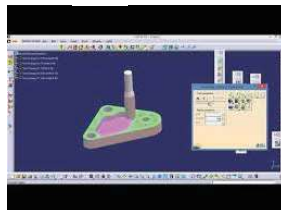7.2
6.4
5.6
4.8
4
3.2
2.4
1.6
0.8
0
MPa

MACHINING PROGRAMMING

❖ *Using VERICUT*

❖ *Using CATIA*

❖ *Using Mastercam*