

Electric Harness Design

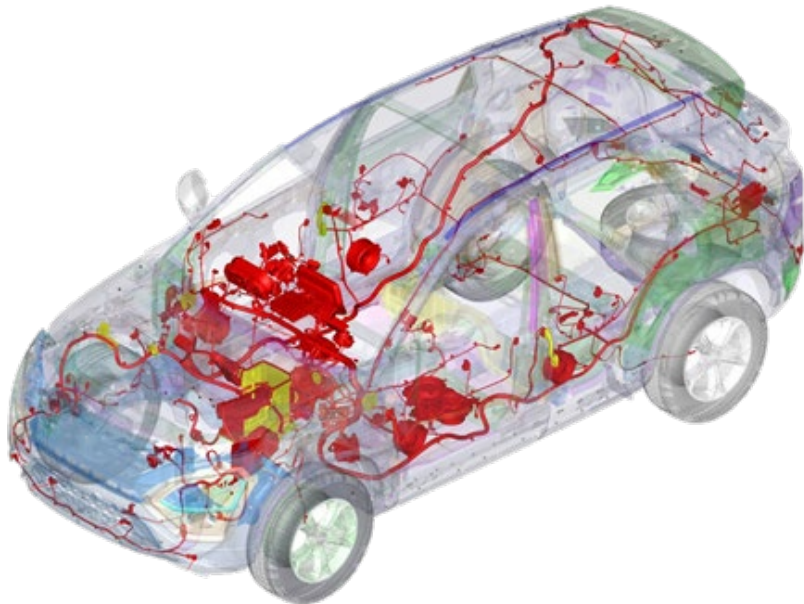
Passenger CAR: Global OEM

BACKGROUND AND CHALLENGE

Conventional Harness design involves the independent design of the circuit, Harness routing, and drawing. There is no integration between the electrical and mechanical CAD.

SCOPE OF WORK

Complete wiring Harness solution to include architecture design, circuit design, wiring harness routing, “Build-to-Print” drawing, and program management.



SOLUTION

- EDS architecture :
 - Plan, view and partitioning Strategy
 - New concept/proposals
 - Architecture requirement and peer review
- Electrical circuit design, schematics preparation & electrical CAE analysis
- Electrical parts/ connector selection
- Complexity chart.
- Electrical packaging of EE aggregates
- 3D LV Harness routing.
- ‘Build to Print’ EDS Design
- Bracket and support Design
- W/H supplier management
- Vehicle build Support, issue resolution

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IMPACT

- Complete harness project was handled by Tata Elxsi and project was completed as per customer timeline.
- The Electrical and Mechanical CAD data integration was done which has greatly improved the quality and reduced the drawing creation timeline.
- Electrical CAE and Mechanical CAE had greatly helped in digital validation.

