KEY TO EV ADOPTION - INTEGRATED DC-DC + OBC + PDU

Tata Elxsi was involved in conceptualizing a combined architecture that integrates multiple systems into one unit for an OEM customer. ASIL compliant product development where we are responsible for the integrated unit's software, hardware, and mechanical design

Design	Chal	lenaes
Design	Chai	1011903

- Complex architecture due to the integration of multiple subsystems into one
- Need for careful design to meet the performance safety & reliability requirements
- Simulation of power stages, magnetics design, and simulation

Our Solution

- System requirements analysis and architecture design
- Hardware & software requirements analysis
- Development of PoC prototype to prove the concept and advance to the product development stage
- Supplier coordination
- Development of test farmwork
- Enclosure packaging design, internal packaging
- Proto Manufacturing & mechanical qualification testing



MARKEI MODEL PHASES PERFORMANCE BENEFIT TO CUST USA, Asia Fixed Price Two 1st phase completed with all the requirements & architecture finalized A simpler design that is more constant of the requirements & architecture finalized scalable, resulting in reduccion of the requirements & architecture finalized
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TATA ELXSI