ELECTRIC VEHICLE OEM

Automotive

Architecture/Design/Packaging
CAE Analysis & Optimization
ADS/Software/Advanced Sensors

ALTEN ADDED VALUE

ALTEN Technology provided 3D design and engineering capabilities and technical expertise to quickly improve the project's status and complete deliverables that were previously delayed by the components' design complexity, required quality, and short component development schedule.

AREAS SUPPORTED

Interior, exterior, closures, chassis

KEY TOOLS & TECHNOLOGIES

Unigraphics NX, Teamcenter, Visualization Mockup, Jira

KEY DATA

Team Size: 5 Engineers
Time: Since Jan. 2022
Location: Greensboro, NC
Work Package

ALTEN TECHNOLOGY

MECHANICAL ENGINEERING

OVERVIEW

The OEM is a UK-based automotive company that develops electric vehicles for transportation services. It focuses on the transportation ecosystem of affordable electric vehicles that offer an exceptional user experience with an expected lower total cost of ownership.

In 2022, ALTEN Technology supported the OEM by developing several components for their global (US and UK) van and bus platforms, including components for the exterior, interior, closures, and chassis compartments.

PROJECT DETAILS

Activities Supported

- CAD 3D models
- FEA preliminary analysis
- Mass optimization
- Feasibility studies
- Manufacturing assessments
- Class A studio surfacing and engineering assessments to ensure all surfaces/parts were manufacturable
- Attachment points optimization
- Sensor integration

Components Developed by Area

- **Interior:** hard trim, wheelhouses, headliner, dash panels
- **Exterior:** side plates, wheel liners, wheel panels, facias, grilles, mirrors, cameras, rockers, undertrays, mirror covers, lighting brackets
- **Closures:** sliding and hinge door, aluminum brackets for door and rail door
- **Chassis:** rear suspension subframe and front wheel adapter