

ZOOX

Automotive Architecture/Design/Packaging ADS/SW/Advanced Sensors

ALTEN ADDED VALUE

ALTEN Technology brings expertise in part development with OEMs and EV startups, from design concept to production

KEY TOOLS & TECHNOLOGIES

CATIA 3DX, CAE (ANSA, EPILYSIS), Jira

KEY DATA

Team Size: 14 Engineers

Time: Since 2016

Location: Greensboro, NC

Work Package and On-Site Support

AUTONOMOUS VEHICLE START-UP (LEVEL 5 AUTONOMY)

OVERVIEW

ALTEN Technology has partnered with Zoox in engineering from the early concept phase. Support is both on-site at the client facility in California as well as fully remote at the ALTEN Technology delivery center in Greensboro, NC.

ALTEN Technology has contributed to the **interior, exterior, body in black, mechatronics, thermal, and electrical architecture** design.

PROJECT DETAILS

- Developed **seating system, interior and exterior trim components, and sensors**
- **Mechatronic, sensor integration, and sensor cleaning**
- Conducted **packaging** studies for electrical, interior, exterior, thermal, and mechatronic systems
- Performed **harness design** and 2D **schematics**
- Created design and packaging of **thermal components** for the **powertrain, battery, AI compute stack, and cabin AC**; design of all **hoses** for the complete thermal system; development of isolated bracket solutions for **HVAC, Lcon, chiller, and compressor**; design of radiator fan shroud and HVAC bridging through the wet/dry seal structural analysis (FEA) of new components
- **Airbag integration and seatbelt design**

