

## AUTONOMOUS EV

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### Automotive

ALLEN Technology has been a long-term partner to our client since 2016 and is integral to the development of our client's bidirectional level 5 autonomous vehicle

#### KEY TOOLS & TECHNOLOGIES

CATIA 3DX, CAE (ANSA, Epsilysis), 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

ALLEN Technology has been an engineering partner to our client from the early concept phase. Support is both on-site at the client facility in California as well as 100% remotely at the ALLEN Technology delivery center in Greensboro, North Carolina.

ALLEN Technology has worked on the interior, exterior, BiB, mechatronics, thermal, and electrical architecture design.

### PROJECT DETAILS

- Development of seating system, interior and exterior trim components and sensors
- Mechatronic integration and sensor cleaning
- Packaging studies for electrical, interior, exterior, thermal, and mechatronic systems
- Harness design and 2D schematics
- 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

