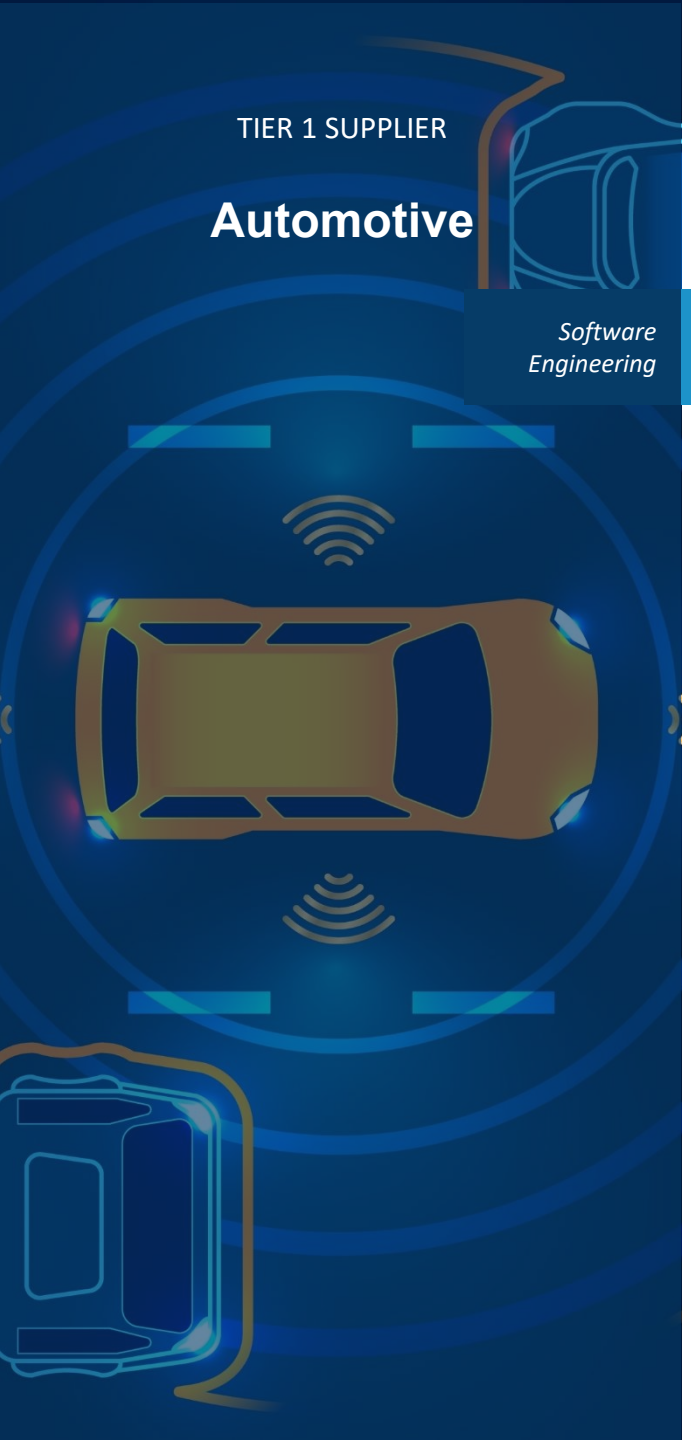

TIER 1 SUPPLIER

Automotive

Software Engineering

DEVELOP ADAS AND AUTONOMOUS DRIVING CAMERA TECHNOLOGY

OBJECTIVES

- Develop advanced driver-assistance systems and autonomous driving technology using camera sensors to include features like lane, object, and scene detection; automatic emergency braking; and automatic high beam control

MAIN TASKS

- Elicit and negotiate client requirements
- Perform requirements engineering to establish full traceability in DOORS
- Plan development activities for individual features and report feature status to APL/Project
- Create and maintain software requirements
- Design, implement, and test ADAS algorithms based on client and internal requirements
- Implement ADAS algorithms in Simulink and generate code with MATLAB Coder
- Perform test implementation in MIL and SIL testing, on-bench (monitor HIL) and in-vehicle, unit tests, and software quality tests to ensure flawless implementation

KEY TOOLS & TECHNOLOGIES

- Simulink
- MATLAB
- Embedded C
- Python
- AUTOSAR
- CANoe
- Trace32
- PTC Windchill
- IBM DOORS
- Visual Studio
- EyeQ client

ALTEN TECHNOLOGY