

ALTEN Global Technologies



ALTEN Global Technologies Private Limited (ALTEN GT) is part of the ALTEN Group of companies with primary focus on Automotive, Aerospace, Embedded & Enterprise products and engineering services.

With strong background in Built-to-Spec Safety Critical Product Development, ALTEN GT has made significant contribution towards been working on the automotive vertical in the areas of GPS, Telematics, Motor Control Units, Communication Stacks, Bootloaders & Functional Safety Engineering Services on several customer programs

Over the years, ALTEN GT has chartered an impressive record of accomplishment In customer satisfaction, innovation, sales and profitability. This has been made possible with continuous enhancement of Competence in Technology, Quality Processes, Project Management and Customer Focus.



AUTOSAR Offerings

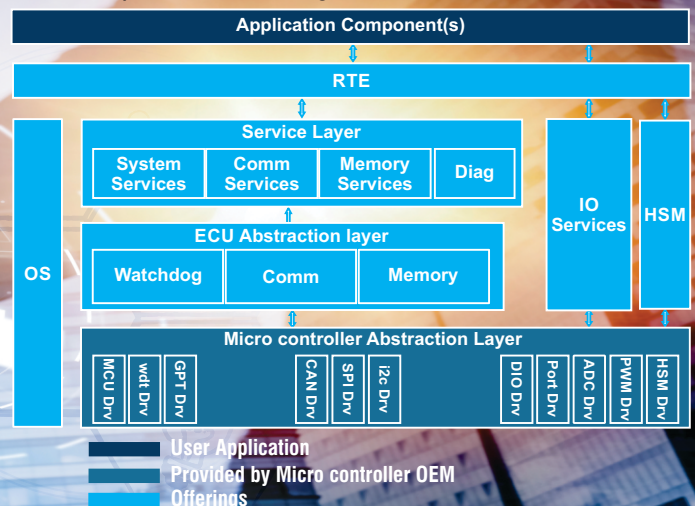
OUR SOLUTION

ALTEN GT has experience in using VECTOR AUTOSAR tool chain Davinci Developer, Davinci Configurator Pro

ALTEN GT uses in house developed AUTOSAR Classic layered BSW in all Automotive Software development projects.

The BSW contains the following components:

- System services: ECU Mode manager, Scheduler manager, Comm mode manager and Watchdog mode manager
- Memory Services : Flash , EEPROM managers
- Communication services : CAN, I2C, UART and SPI communication
- IO HW Abstraction: DIO, Port, PWM, ADC
- OS : Tasks, Alarms and Events
- Security: Secure Key Storage, Encryption/decryption, MAC
- Runtime environment (RTE) :Sender Receiver and Client Server



CAN communication stack (ISO 15765) and Diagnostics stack (ISO 14229)

ALTEN GT has the following in house developed CAN protocol stacks:

- ISO 15765 (CAN Communication)
- ISO 14229 (Diagnostics UDS on CAN)
- ISO 14229 (Bootloader on CAN)
- CanOpen
- CAN 2.0B and CAN FD (Driver)
- OEM specific proprietary protocols can be added on top of these stacks based on custom requirements.

Available on Renesas RH850 and ARM Core

80% code is processor independent. Highly portable to any processor

Experience with CAN Protocol

BCM for Farm Vehicles

- CAN Protocol Stack Used: J1939, ISO 14229 (UDS)
- Tools Used: Intrepid Value CAN4, Bus Master

Connectivity Control Unit

- CAN Protocol Stack Used: ISO 15765, J1939, UDS for diagnostics and program loading
- Tools Used: CANoe, Intrepid Value CAN4, Bus Master

AIS-140+

- CAN Protocol Stack Used: J1939, OBD
- Tools Used: Intrepid Value CAN4, Bus Master

Automotive telematic unit

- CAN Protocol Stack Used: CanOpen



VALUE PROPOSITION

- Training and consultation
- AGILE & ADAPTIVE development
- OEM Specific and Product specific solutions
- Reduction in product development time and cost
- Expert support for future integration and customization
- Proven stack components on existing hardware platforms
- Engineers with experience in AUTOSAR Ethernet and platform software
- Flexible licensing model that includes Development as a Service Model, Licensing model, Joint Development with Share IP rights

ALTEN GT AUTOMOTIVE EXPERIENCE

The other areas of Automotive Industry that we cover are:



Powertrain



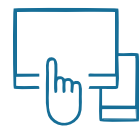
Body Electronics BCMs



ADAS



Safety and Access



Infotainment



Electrification

Our Offerings include:

- Requirement Engineering
- Software Development (HMI, MATLAB, AUTOSAR, Drivers in embedded C/ C++ , Image processing)
- Verification and Validation (Unit Testing, Module Testing, Integration and System Testing)
- Rapid Prototyping

BUSINESS VALUE

- Shared technology cost and IP ownership along with open network capabilities
- Reduced turnaround time and cost of implementation, wiring and complexity
- High bandwidth for connected car functionalities such as infotainment, ADAS, V2X etc...
- Time synchronous transmission of Audio and Video functions
- Optimize and master the scalable E/E solutions
- Enhancing effectiveness by easing the implementation of innovative functions
- Integration the association of OEM's, SW suppliers and Tier 1's.



www.altengt.com



ALTEN Global Technologies Private Limited
No.72 & 73, 1st and 4th Floor, Krishna Reddy Colony,
Domlur Layout, Bangalore-560071,
Karnataka, India.

India

Voice : +91 - 80 4546 3300

United Kingdom

Voice : +44 (0) 1223 393 650

Germany

Voice : +49 69 710 455 473

North America

Voice : +1-469-594-4027