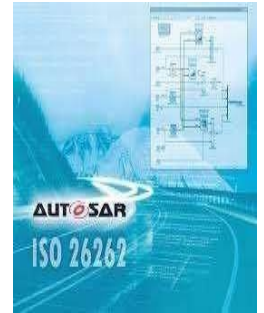


CASE STUDY

Development of ISO26262 Compliant AUTOSAR Base Software

1.0 Project Objective and Scope:

- Development of ISO26262 compliant AUTOSAR MCAL Base Software (Timer, SPI, PWM, ICU, MCI, WDG, DIO etc), CAN, LIN
- Model based Application Software development (Matlab/Simulink)
- Porting Autosar OS based application across different Micro-controllers
- More features integrated for future applications
- Support for Safety based systems



2.0 XPT Team Contribution:

The project was executed onsite at client location and XPT Engineers were instrumental in development of Base Software

3.0 Tools and Hardware used

- Microcontroller –Freescale PowerPC Controller MPC5607B
- Language: C, Assembly
- Compilers: Greenhills Compiler
- Debuggers: GDB
- Models: Matlab, Simulink
- Standards: ISO26262, AUTOSAR
- Tools: PC-Lint (Misra 2004), Polyspace (Static Tool Analysis), RSA (Code Complexity)
- Configuration Management: Clearcase, SVN