

FUNCTIONAL SAFETY: FRONT CAMERA SYSTEM

Project Description

Front Camera system is a part of ADAS sensors in the vehicle. It is responsible for capturing video and perceiving the obstacles, pedestrians, vehicles and traffic signs in front of the car. It uses Gen5 image processing SoC with the capability of capturing 36 frames per second rate to provide real time perception signals supporting various ADAS function of leading premium OEMs.

Solutions

A state of the art concept of degradation and healing to full-fill functional safety and system performance needs of OEM. Strategical approach of self monitoring both SW and HW ensures the required integrity level of perception outputs and the approach of onboard self recovery function makes the ECU to meet the OEM performance KPIs.



Industry

Automotive



Customer

Global leading supplier for automotive



Keywords

Automotive, Degradation, Fuctional Safety

Tools

- ✓ PTC Integrity
- ✓ Enterprise Architect
- ✓ Python