Arm Functional Safety Partnership Program

Case Study

Application Areas

✦ Automotive
✦ Industrial

Dream Chip Technologies

Goal

Dream Chip Technologies (DCT) aims to provide the best in class functional safety support as an additional service for our SoC customers as part of our chip design service offering. This includes full functional safety documentation, safe SoC architectures and support of functional safety qualification in collaboration with organizations like TÜV Süd, TÜV Rheinland and TÜV Saarland.

Challenge

There are many companies and startups out there that are able to design automotive sensors (cameras, radar and Lidar sensors) but are unable to manage the complexity of high performance MPSoC designs for image data processing. We help to implement and to accelerate the MPSoC designs in the automotive space, and at the same time manage the complexities and risks of such projects in combination with the functional safety requirements.

Benefits

✦ Provide the unique combination of image processing, MPSoC design and functional safety background
✦ Start from our Automotive platform IP to reduce design risks and improve time to market
✦ Combine camera design, MPSoC design, evaluation platform design and software design

Solutions

1. Complex MPSoC design service for automotive sensor data processing
2. Functional safety service including full functional safety documentation and definition of functionally safe SoC architectures
3. Support of functional safety qualification in collaboration with organizations like TÜV

How Arm Functional Safety Technology Helps

DCT designs platforms with many of Arm cores like Cortex-A65AE and Cortex-R52 in current automotive designs as well as the Corstone-700 subsystem in industrial designs. Arm's Functional Safety Partnership Program allows access to support for functional safety as well as help from the ecosystem partners within the Functional Safety Partner Program.

Visit Arm's Functional Safety Partnership Program