

FUNCTIONAL SAFETY

# SAFETY FIRST

BRACE AUTOMOTIVE DEVELOPMENT

Modern vehicles are highly dependent on well-functioning on-board computers, sensors, actuators and networks. With the automotive industry rapidly moving towards a future of autonomous vehicles and intelligent mobility systems, most innovations will take place in the vehicle's electrical and electronic system.

This complex area creates a risk related to functional safety. BRACE has a specialized team of functional safety engineers who can assist you from assessments and GAP analysis to process and technology improvements.

They work according to the state-of-the-art industry standard ISO 26262 and certifications. The ISO 26262 standard Functional Safety of Road Vehicles, first published in 2011 and revised in 2018, is the current state-of-the-art standard to ensure functional safety of road vehicles.

This standard applies to OEMs who provide on-road mobility products and automotive solution providers (Tier-1, Tier-2, Tier-3 suppliers) who manufacture electronic or electrical systems.

The ISO 26262 series of standards sets requirements for E/E systems developed for passenger cars, trucks, buses and motorcycles to ensure that Automotive Safety Integrity Levels (ASIL) are met at every stage of the system's life cycle.

Compliance with ISO 26262 demonstrates diligence and confidence that your product is free from undue risk during field use.

The standard provides a set of guidelines to identify potential hazards and implement appropriate safety measures before series production. That way you are guaranteed more confidence in your product.

ISO 26262 also helps you strengthen your brand image by taking appropriate action against costly safety-related product recalls and fatal accidents on the road.





With more than 10 years of experience in functional safety and 20 years of experience in the automotive industry, BRACE has built up an enormous amount of experience.

BRACE is a trusted partner for OEMs and suppliers in the automotive industry. BRACE primarily focuses on strengthening the three pillars of development (People, Process and Product) to ensure maximum ISO 26262 reach within organizations.

BRACE has provided the following ISO 26262 services to automotive organizations:

- Customer and supplier interface management
- Safety management
- ISO 26262 process development
- Confirmation ratings
- ISO 26262 Audits and Assessment
- Development of security matters
- Hazard analysis and risk assessments
- Development of safety concept
- Safety analysis (FMEA, FTA, FMEDA and other recommended methods)
- Create and manage security requirements
- ASIL decomposition
- trainings

## ABOUT BRACE

As a service provider, we tailor our services to the pulse of our customers' projects and deliver practical and smart solutions. Our services cover mechanical, mechatronics and software aspects in systems management, development and integration in the automotive sector.

We offer different service levels: from resource staffing for customer teams to our own knowledge products that are offered as consultancy services: for example functional safety.

The multidisciplinary nature of the 3 market-oriented domains makes BRACE a valuable automotive development partner.

SMART & CONNECTED | SUSTAINABILITY & ELECTRIC | AUTONOMOUS & DRIVER ASSIST

