

# Safety Engineering

From safety concept to certification - efficiently and reliably.

## Your challenge

Functional safety is often compromised by fragmented processes, unclear responsibilities, and inconsistent work products.

## Our solution

Our Functional Safety Engineering services cover the entire lifecycle - from concept to safety case - ensuring your system is safe by design and norm-compliant.

**Safe systems don't happen by chance. Talk to us.**



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# Our contribution to your success story

## **Safety Development during Concept Phase**

- HARA
- Definition of safety goals
- Functional and technical safety concepts
- ASIL/SIL decomposition
- System-level safety mechanisms

## **System Safety Engineering**

- Integration of safety mechanisms into system architectures
- Interface definition and safety allocation
- Traceable implementation of assumptions of use of integrated HW/SW elements

## **Hardware & Software Safety Support**

- Derivation of safety requirements
- Support for hardware/software safety architecture
- Coordination between disciplines

## **Safety Analysis & Metrics**

- FMEDA & FTA Support
- Diagnostic coverage and safety metrics
- Evaluation of failure rates and assumptions

## **Verification & Validation**

- Definition of safety test strategies
- Verification tests
- Support for validation
- Consistency checks between requirements and implementation
- Artifact review

## **Deliverables**

- Functional and technical safety concepts
- Safety requirements (system, HW, SW)
- Safety analyses (e.g. FMEDA, FTA)
- Safety case and supporting documentation
- Audit-ready work products

## **Your benefits**

- Ensure compliance with applicable safety standards
- Avoid costly redesigns and late project changes
- Reduce risk of audit findings and certification delays
- Achieve consistency across system, hardware, and software
- Accelerate development through structured safety engineering



**Turn process into progress.**

With safecubed.