

Cybersecurity Engineering

From risk assessment to secure implementation – end-to-end.



Your challenge

Many organizations struggle with incomplete threat analyses, unclear security concepts, and complex system integration - while growing regulatory pressure leads to costly redesigns and audit uncertainty.

Our solution

Our Cybersecurity Engineering services support you across the entire lifecycle - from threat analysis to implementation - ensuring your systems are secure and audit-ready.

Secure systems don't happen by chance. Talk to us.



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Our contribution to your success story

Threat Analysis & Risk Assessment

- Asset identification
- Threat scenario definition
- Attack path analysis
- Risk evaluation (impact & feasibility)

Cybersecurity Concept Development

- Definition of cybersecurity goals
- Derivation of cybersecurity requirements
- System-level security architecture
- Selection of appropriate security mechanisms

System & Architecture Security Engineering

- Integration of security mechanisms into system architecture
- Secure interface and communication design
- Identification and mitigation of attack surfaces

Implementation on HW- and SW-level

- Secure software and firmware design
- Integration of cryptographic algorithms
- Secure boot and update concepts
- Coordination across system, hardware, and software teams

Verification & Validation

- Definition of security test strategies
- Support for penetration testing and validation
- Schematics and code review

Compliance & Documentation

- Creation of cybersecurity work products
- Traceability and documentation
- Preparation for audits and assessments

Deliverables

- TARA results and documentation
- Cybersecurity goals and requirements
- Cybersecurity concept and architecture
- Security test strategy
- Audit-ready documentation and evidence

Your benefits

- Ensure compliance with applicable cybersecurity standards
- Reduce risk of vulnerabilities and security incidents
- Avoid late redesigns due to missing security mechanisms
- Achieve consistency across system, hardware, and software
- Accelerate development through structured cybersecurity engineering



Turn process into progress.

With safecubed.