

## ECU SOLUTIONS

### ONE-STOP – WE MAKE IT POSSIBLE

Our Neutraubling branch specializes in customer-oriented development, reacting rapidly and flexibly to our customer's industry-specific requirements.

AKKA provides you with control unit development services including production delivery, rapid prototyping through pre-developed modular control units along with rapid prototyping platforms. Our experienced team of specialists safeguards the quality of the results throughout the course of the development using detailed analysis and reviews.

#### ECU SOLUTIONS SERVICE PORTFOLIO

- Project management
- Functional safety management
- Embedded systems
- Embedded software
- Hardware design
- Hardware design
- Verification and validation services
- Test systems & prototyping
- Production delivery

#### WE OFFER YOU

- Extensive knowledge of automotive-specific standards and requirements
- In-depth industrial expertise
- Interdisciplinary collaboration in qualified teams

#### TAILORED TO YOUR INDIVIDUAL REQUIREMENTS

If you are planning to enter into the automotive industry, we will attend your process and support you with our extensive automotive know-how. We are happy to provide our expertise to other industries such as medical technology, the railway sector, etc.

## OUR ADDED VALUE

- High flexibility
- Short reaction times
- Rapid prototyping
- Proven high-quality results
- Long-standing experience with all of the market players: OEMs, suppliers, service providers
- A competent partner for international projects with global engineering & support capacities



Automotive



Aerospace



Railway



Energy



Life Sciences



Telecoms



Space



Services and Informations Systems



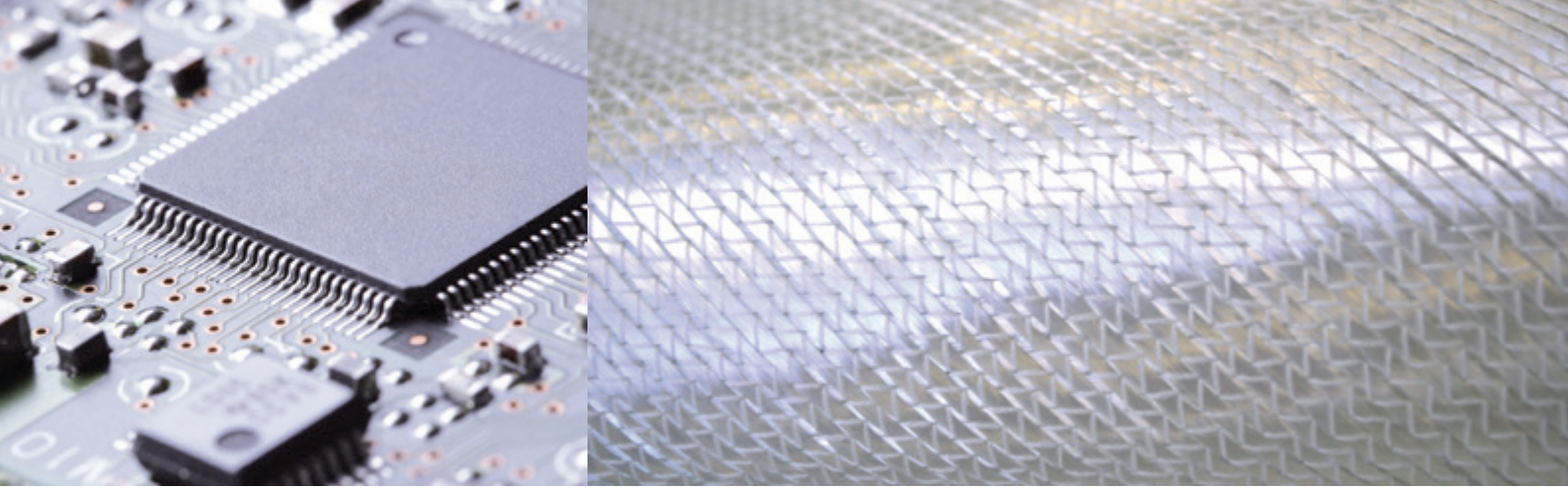
Defence



Oil and Gas



Consulting



## OUR EXPERTISE

### PROJECT MANAGEMENT AND FUNCTIONAL SAFETY

- Comprehensive project management methods as per IPMA/GPM ranging from the initial proposal to the development to series delivery
- Extensive experience in completing projects with functional safety requirements as per ISO 26262

### EMBEDDED SYSTEMS

- Evaluation, support and development of embedded systems
- Concept development, implementation and adaptation of architectures, networking, integration and validation

### EMBEDDED SOFTWARE

- Core software (architecture, operating system, etc.)
- Standard and application software (embedded and PC)
- Bus systems and diagnosis (CAN, LIN, FlexRay, etc.)
- Integration and configuration management
- Integration of standard software (customer-specific, AUTOSAR)
- Model-based software development (MATLAB, UML)

### HARDWARE DESIGN

- Concept, circuit development and layout
- Design verification, FMEA, FMEDA and FTA
- Module integration, commissioning and hardware verification

### VERIFICATION AND VALIDATION SERVICES

- Test automation (e.g. with PROVEtech:TA, LabVIEW, VectorCAST)
- Software tests, functional tests, environmental and service-life tests
- PROVEtech:TP5 test process model (harmonized with SPICE/CMMI and ISO 26262)

### TEST SYSTEMS & PROTOTYPING

- Planning and production of test systems (EoL, HiL, customer-specific solutions)
- Functional mock-ups (e.g. LabCar assemblies)
- Control unit prototype production

