Our driving force is the automobile – our task is the development of future-oriented technologies. As a development partner to the automotive industry, the ASAP Group offers comprehensive services with a focus on the mobility of the future. As an independent subsidiary of the global player HCLTech, we combine stability with an innovative mindset. We are future-oriented and always have the latest technologies firmly in mind.

Benefit from our development expertise in the areas of electromobility, autonomous driving and connectivity. With our five service segments – Electrics/Electronics, Software, Consulting & Service, Test & Validation, Vehicle Engineering – our strategic development focus is on the future-oriented technologies of the automotive industry.

We are ASAP

get in touch

Any questions or projects that you would like to discuss? We‘d love to share ideas and explore synergies with you.

asap.de

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ASAP
Part of HCLTech

Wiring Systems

A high-performance wiring system will be essential for future vehicle generations. In our Wiring Systems division, we cover the full service spectrum, throughout the development process – from architecture design through to installation. We also support the construction of prototypes and sample wiring systems. Whether you're looking for virtual validation or real-world testing, we specialise in both. But we're one thing above all: efficient.

Services Wiring Systems

DMU | 3D

3D cable routing

- Cable routing design (e.g. compliance with all relevant parameters, fastening and protection concepts)
- Design of topology concepts from customer-specific harnesses to power cables
- Definition of routing areas subject to dynamic stresses

Wiring system simulation (IPS)

- Simulation of routing areas subject to dynamic stresses
- Cable/assembly design with regard to their function/production
- Depiction of installation methods for critical areas/results
- Clearance analysis in static and dynamic areas

Electrologic | 2D

- Development of system plans and wiring diagrams for the entire vehicle
- Control and development of module and feature variants
- Creation and implementation of change requests from OEMs and suppliers in compliance with all processes
- Preparation of production drawings in accordance with OEM, Tier 1 and process standards
- Full-scope development from a single source, from concept to series manufacturing
- Independent participation in architecture roundtables
- Interdisciplinary coordination with related domains

Components

3D component development

- Development and design of all non-electrifiable wiring system components
- Geometric integration into all vehicle architectures
- Component analysis and optimisation (e.g. manufacturing and dimensional accuracy)
- Tool-appropriate design of metal, plastic and elastomer components (1K/2K)
- Development from a single source, from concept to series production

ADAS integration

- Component development and integration of ADAS sensors, control units and antennae for all phases
- Sensor setting throughout the entire vehicle
- Production of technical specifications for OEMs and Tier 1
- Integration of sensor technology into prototype vehicles

Component ownership

- Geometric integration of all wiring system elements in line with all customer-specific design guidelines
- Control of wiring system variants throughout the entire development cycle
- Change management and approval processes in line with OEM guidelines
- Interdisciplinary interface management between OEMs and suppliers
- Cost monitoring, schedule tracking and presenting topics to various bodies
- Development throughout the entire product engineering process