### 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.

# get in touch



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



We are ASAP







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asap.de



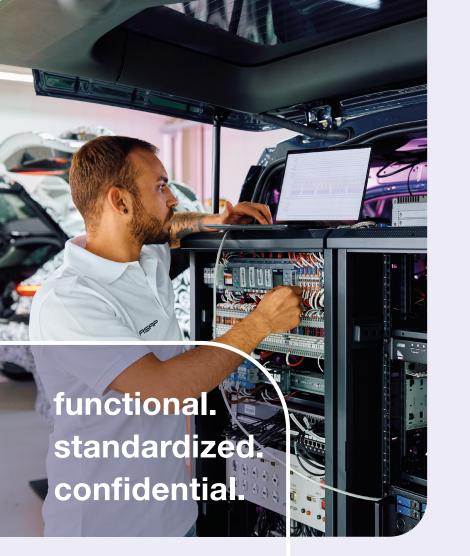
**Robert Werner** COO robert.werner@asap.de



Stefan Schmidt Director Division Vehicle Engineering stefan.schmidt@asap.de



**Vehicle Engineering** 



Paving the way for the mobility of tomorrow. Vehicle development has been undergoing a transformation for years: autonomous driving, connectivity and alternative drive types. We are enthusiastic about new possibilities. From the initial idea and design to the construction and conversion of prototypes, technology carriers and preseries vehicles. Our development guarantee: high-quality test vehicles for valid test results.

### Services Vehicle Engineering

## Mechanical Engineering

- Conceptualisation and package
- Feasibility analyses/studies
- Geometric modelling and visualisation, detailed design
- Series development | Supervising series production
- Virtual validation | DMU
- Data management

### Production Engineering

- Design of devices, gauges, measurement fixtures, assembly systems
- Clamping and fixation concepts
- Production of equipment and devices, incl. for assembly, measurement, commissioning
- Pneumatics, SPS control, e-planning
- Virtual validation
- RPS definition and alignment concept

#### Pre-Series Center

- Assembly and modification of prototypes, technology carriers, and pre-production vehicles
- Updating the hardware and software of vehicles with a focus on electric drives and driver assistance systems
- Commissioning of complete vehicles dynamically and statically, including all necessary calibrations and settings
- Coding and parameterizing of control units for various derivatives such as MQB Baseline, MEBs, as well as all OEMs of the VAG group
- Pre-commissioning on HILs, individual control units, or on the test bench

### **Drive Testing**

- Planning and logistics of global test drives
- Worldwide route planning, definition of driving profiles and scenarios
- Support for measurement technology (first/second-level support)
- Implementation of endurance test drives and functional tests on roads and testing grounds
- Run-in of ADAS/AD environmental data with labelling activities
- Support with summer and winter test drives