

Bosch Engineering Consulting OBD and Emissions



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Consulting

The development and implementation of control systems which are able to fulfill the stringed requirements of today's OBD and emission legislation become more and more complex. New diagnostic strategies have to be developed to comply with the extended requirements and are able to deal with decreasing emission limits for e.g. LEVIII or Euro 6.

Additionally new technologies like hybrids and range extender as well as new requirements for Off-Highway solutions like marine or recreational vehicles demand the development of OBD and emission control algorithms with focus on different controllers and different application areas. Controllers for e.g. vehicle dynamic applications become OBD relevant and therefore diagnostic strategies need to be developed which are able to detect emission and OBD relevant errors. On the other hand those diagnostics have to be robust against false failure detection in daily use and are able to fulfill all other OBD requirements like Generic Scan-Tool communication, fault management and in use monitoring performance ratio (IUMPR).

Scope of Service of Bosch Engineering

The services of Bosch Engineering encompass:

- ▶ OBD System Design
- ▶ Support at Authorities
- ▶ Training



Bosch Engineering has a wide range of experience in development of OBD systems for worldwide markets and different vehicle categories like conventional light duty, hybrid and range extender vehicles, heavy duty and Off-Highway applications or marine solutions. Additionally we are experienced in implementing OBD control strategies for different application areas like combustion engine, exhaust-gas treatment as well as hybrid or vehicle dynamic controllers.

Scope of Service in Detail

Bosch Engineering is pleased to offer the following customized consulting services for all OBD and emission related components and controllers:

OBD System Design

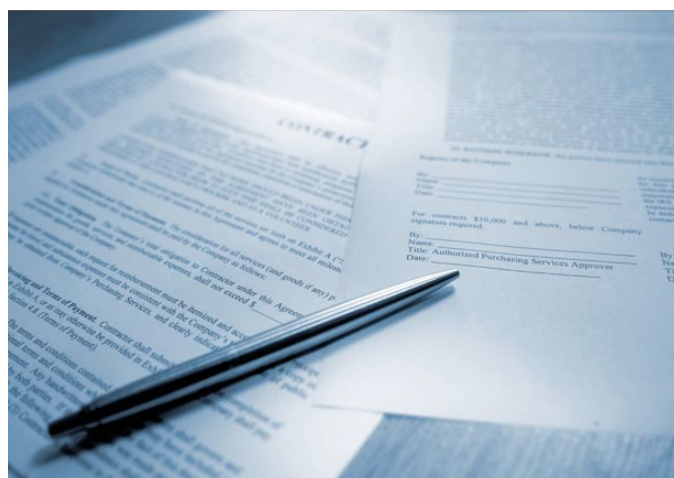
- ▶ Analyses and interpretation of legislative requirements and determination of impacts on systems design
- ▶ Development of diagnostic concepts according to worldwide legislative requirements for all vehicle categories and combustion processes
- ▶ Creation of technical requirement specifications for OBD and emission control systems
- ▶ Support for OBD conform software development and function calibration
- ▶ Performance of OBD system release reviews and measurements

Support at Authorities

- ▶ Preparation of technical discussions with authorities (e.g. creation of system presentations)
- ▶ Attendance at meetings with authorities if required
- ▶ Support regarding answers to the OBD and emission control system during the homologation

Training

- ▶ Worldwide OBD and emission requirements
- ▶ Generic Scan-Tool communication
- ▶ Tailor made trainings for specific OBD function and legislative requirements



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