



The design center DMOS GmbH in Dresden develops customer specific mixed signal integrated circuits for smart power applications, mainly used in the automotive industry. Our ASICs and ASSPs are also used in smart home appliances or the "industry 4.0". DMOS GmbH owns a building, with excellent work and development conditions close to Dresden Main Station.

The DMOS GmbH is a subsidiary of the Elmos Semiconductor SE.

Internship at the DMOS GmbH

Setup of a single-ended master/slave communication channel in the automotive Ethernet standard IEEE Std. 802.3cg™-2019

During this internship/thesis the following tasks are to be solved:

- Construction of a PCB application board
- Development of a communication driver, based on the μ C board for sending and receiving telegrams
- Commissioning of the communication channel
- Analysis and evaluation of the transmitter and receiver of an AE transceiver with regard to
 - Driver self-switching
 - Asymmetries
 - Delays
 - Input resistances
 - Amplitudes
 - Wave shapings
- Analysis of the interface in the OSI model between PHY and MAC layer

Our requirements:

- Completed basic studies in electrical engineering, information systems technology (or comparable).
- Experience in the C programming language
- Experience in PCB layout and initial commissioning
- Experience in handling laboratory measuring equipment
- Analog and digital circuit knowledge
- Understanding of system partitions

This is what you will benefit of:

- equitably remuneration
- Interesting and challenging tasks in an international environment
- Comprehensive introductory and training programs
- Competent co-workers
- Flexible working hours, possibility of mobile office, company events and social offers

dmos⁺
member of the elmos group

Interested? Apply for it!

Send us your application as PDF file by mail.

We are looking forward to get to know you in person!

Contact:

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