

## Internship Development Electrical Power System

### Development of Electronic Power Distributors and DC/DC Converters

Professional processes in dynamic teams produce innovative cutting-edge technology. But driving pleasure is also realized at our company, from development to production, above all with fun at work and enthusiasm for the joint project. That's why we not only give students the opportunity to listen to us, but also to join in and think ahead.

Help us work on the mobility of the future! We develop innovative electronics for the 12V and 48V electrical systems of future BMW models. You will support our team in the development of active power distributors and DC/DC converters. In doing so, you can contribute and expand your knowledge on exciting projects in the field of power electronics.

#### What can you expect?

- You program measurement equipment for our prototype vehicles and take care of installation and commissioning
- You perform tests on vehicles and test benches and deal with prototypical hardware development as well as the evaluation of the measurement data
- You get to know the hardware architecture of a new control unit and support the development by analyzing component properties and creating architecture overviews.
- In addition, you will help us to improve the analysis options for data from our vehicles and develop evaluation scripts, e.g. with MATLAB.
- The participation in the operative day-to-day business rounds off your exciting field of activity.

#### Our requirements:

- Studies of electrical engineering, mechatronics or a comparable course of study
- Second half of bachelor's degree or master's degree
- Practical electronics experience, ideally power electronics for automotive applications.
- Knowledge of bus systems, e.g. CAN, LIN and ECU test as well as programming skills in C, C++, MATLAB/Simulink are an advantage
- Business fluent German and good English skills
- Initiative and pleasure in working independently

**Duration:** 6 months

If you are interested or have any questions, please contact:

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