

Joyson Safety Systems is one of the leading global developers and manufacturers of automobile occupant protection systems with a turnover of ca. 4,8 billion euros and more than 50,000 employees worldwide. We represent innovation and progress. As a reliable and skilled partner of the automobile industry, we design, develop and produce occupant protection systems and components. Our portfolio includes steering wheels, airbags and generators, safety belts, technical plastic components, electronics and sensor technology which we supply to nearly all renown vehicle manufacturers worldwide.

Our team in Aschaffenburg needs support and we are seeking:

Software Developer - Motor Control Expert (all genders) EMEA Electronics

Site:
Aschaffenburg

What you can change — your duties

- Develop complex device drivers for operation and configuration of DMR motor bridge board
- Integrate field oriented motor control algorithm developed in Matlab/Simulink
- Develop software framework for torque/speed motor control loops capable of integration into AUTOSAR environment
- Develop usage concept of uC internal peripherals for control of 3-phase motor bridge
- Support optimization of motor control algorithm
- Support optimization of motor control hardware
- Support integration of motor control software into application project software
- Developing DMR (Disc Motor Retractor) motor control model
- Generate speed and torque control algorithms for motor based on field oriented commutation
- Defining interface to high-level control algorithm

- Verify and optimize DMR motor control model and algorithms through hardware-in-the-loop operation using dSpace AutoBox

Impress us – your qualifications

- University degree, preferably in computer science, technical computer science, electronics or a comparable qualification
- Several years of professional experience in the field of embedded software development, ideally in the automotive industry
- Knowledge of digital signal processing in software
- Understanding theory of brushless motor operation and control
- Understanding of motor control hardware characteristics
- Experience with functional safety applications (ISO26262)
- Knowledge of automotive development methods (ASPICE)
- Ideally, experience with NXP/Freescale microcontrollers and development tools
- Preferably experience with Matlab/Simulink and dSpace AutoBox tools

What we offer — your benefits

- First aid station & Health Care Centre
- Health management
- Discounts at well-known gyms
- Company canteen
- Further training as well as in-house training
- Free parking
- Flexible working time
- Good transport connections

Contact

We look forward to receiving your application! Please send by e-mail to your contact:

Sandra Hornatkiewicz

sandra.hornatkiewicz@joysonsafety.com.

Your contact will also be available for any queries you may have.