



Software developer (m/f/d) – modeling tools and drivers

Location: Paderborn / ID: RTDS-PD-SWMT

As a software developer (m/f/d) for modeling tools and drivers, you will be responsible for product development in the area of the dSPACE FPGA Programming Blockset for MATLAB®/Simulink®. The blockset is based on VHDL code generators, such as the Xilinx® System Generator, and provides easy access to low-latency, high-performance real-time modeling for future markets such as e-mobility and power electronics.

The job advertisement is aimed at both entry-level and experienced professionals.

Tasks

- Software development in the area of the dSPACE FPGA Programming Blockset for MATLAB®/Simulink®
- Varied development of new blockset features
 - Support for other modeling tools and VHDL code generators, e.g., MATLAB HDL Coder or Xilinx Vitis HLS
 - Simulink function development for block-based FPGA libraries
 - Processor-based pre- and postprocessing of FPGA functions
 - Advancement of features, e.g., for interactive measurement and adjustment of signals in the FPGA at run time
- Advancement of drivers to control new dSPACE FPGA boards or support new FPGA blockset features

Your Qualifications

- Completed studies (Bachelor's degree, Master's degree, or diploma) in Computer Science or Engineering, or a comparable qualification
- Knowledge of the programming languages C, C++, or another higher programming language
- Very good knowledge of MATLAB or MATLAB/Simulink is desirable
- Basic knowledge of FPGA and VHDL programming is an advantage
- Experience in programming of embedded systems or real-time systems is desirable
- Good German and English skills
- Strong analytical and conceptual skills as well as a very independent way of working
- Strong communication skills and ability to work in a team

People all over the world use means of transport that have been developed, tested, and validated with dSPACE solutions. As a global technology leader for simulation and validation solutions, dSPACE is a partner along the entire innovation chain, from the initial idea to supporting series production.



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