Position

Automotive Firmware Engineer

Work Location

Pisa, Italy

Short summary

In this role, you will be a versatile software engineer who can support the design, development and implementation of next-generation automotive firmware based on the AUTOSAR standard.

Position Responsibilities

- Development of Automotive Firmware, including development of AUTOSAR Classic modules, including but not limited to MCAL, Communication Modules, Non Volatile modules
- Interaction with the group developing the Basic Software Configurator, with the aim of developing a proper tool for the code generation of automotive software
- Coordination with the validation team in order to properly gather the automotive requirements of the developed modules, co-design test sequences, and handle safety workproducts needed for the ISO26262 certification
- Directly report to the product managers.

Position requirements

- PhD Degree in Engineering/ Computer Science
- Excellent knowledge of the C programming language
- Knowledge of computer architectures (e.g. interrupts, spinlocks, most common peripherals structure, memory management)
- Knowledge of RTOS, Real-Time scheduling theory, concurrent programming
- Experience in programming embedded systems and peripherals
- Knowledge about networking and communication protocols
- Excellent collaboration and communication skills, strong team-working attitude
- Good knowledge of English (both written and spoken) and availability to travel in Europe and in China

The following requirements will constitute right of priority:

- Good knowledge of the AUTOSAR, ISO26262 and MISRA-C standards
- Expertise in automotive communication standards (CAN, SOME/IP, XCP, UDS, …)
- Experience in design, development and validation of firmware for automotive products
- Experience in using AUTOSAR development tools and hardware debug tools

We offer a career development in a challenging and international work environment, a competitive salary package, access to cutting edge technologies and state of the art equipment.