

Firmware Engineer

EDUCATION:

Degree in Computer, Electronic or Telecommunications Engineering (preferably five years) or similar.

SKILLS AND TECHNICAL COMPETENCES REQUIRED:

- Excellent knowledge of programming languages C, C++, C# in particular in the IAR environment, embedded Workbench.
- Experience in the development of ARM microcontrollers in particular STM32.
- Experience in the development of MSP430 microcontrollers.
- Development experience on Real Time Operative System e.g. FreeRTOS.
- In-depth knowledge of the issues related to microcontrollers (both analogue and digital), bus and communication protocols (RS485, RS232, SPI, I2C, UART, etc), conversion, AD/DA, power management, clock etc.
- Signal Processing experience (with preference for ultrasonic field).

Optional additional skills:

- Experience in the development of Ultra Low Power systems and in the management of batteries and problems related to the management of the recharge.
- Programming experience in MATLAB.
- Experience in IoT (subGiga, LoRA, Sigfox or similar radio networks).
- Knowledge of the Linux system.
- Knowledge of CAD programs for the development of electronic boards in particular (OrCAD, Altium).
- Good competence in the use of laboratory instrumentation and rework equipment.
- A certain familiarity with the issues related to sensor technology for the measurement of quantities, such as temperature, humidity, pressure, air speed, etc.

EXPERIENCE:

Experience of at least 5 years as a FW developer or in a similar position.

LANGUAGES:

- Requested excellent knowledge of English language
- Knowledge of German is a plus

SOFT SKILLS:

- Propensity to teamwork and problem solving.
- Ability to plan one's own work, to estimate and respect a deadline.

JOB DESCRIPTION

- The resource will be responsible for developing firmware for products based on microcontrollers in the field of sensor technology (environmental, industrial and laboratory) and data collection.
- The resource will be part of the R&D team and will work closely with the HW, SW and Engineering for the development of new products and the maintenance/updating of existent products.