Embedded Software Development Engineer M/F - Doctoral student

Syntony GNSS, a FrenchTech start-up from Toulouse, is developing, thanks to its own innovative and unique technology, a complete range of products in the field of satellite radio navigation such as GNSS receivers, test and measurement tools (constellation simulator, recorder, reader). Syntony has expanded its offer with a major innovation "Subwave", a unique geolocation system applied to confined environments: subways (Stockholm, New York, Toulouse, Toronto), mines, car parks and tunnels around the world.

Created in 2015, the company is experiencing very strong development and is present in many high-growth markets in France and internationally (on 5 continents) in the aeronautics and space industries, but also in those of public transport, rail, mining or IoT. In this context and to strengthen its teams, Syntony GNSS is looking for Embedded Software Development Engineers (M/F).

What you will accomplish with Syntony GNSS:

You join the software development department for the receiver product line to develop innovative applications for the railway sector requiring high-level performance for demanding environments.

This position is intended to take into account the studies required for the use of GNSS receivers in applications related to automation and therefore with a high level of quality of service.

As part of an innovative collaborative project (ECOTRAIN), you will follow a doctoral course to study system architecture concepts and solutions that will guarantee the safe operation of the location function according to railway standards (SIL). This activity is carried out jointly with a University Researcher from UTC.

The missions you will be entrusted with:

- you participate in the drafting of system and software specifications and in all phases of development of the receiver or simulator;
- in partnership with systems and hardware experts you define the most efficient software implementation;
- you take part in the integration of the developments of the function in the system and then on the hardware platform;
- you respect the various development and quality assurance processes.

The technical skills we are looking for:

- C/C++ coding in an embedded context;
- knowledge of development environments such as ClearCase, Gitlab, VectorCAST or Rational Test
- knowledge of the following operating systems: Linux, RTOS, PikeOs or Bare Metal development;
- a good knowledge of statistics
- experience in the field of GNSS is a plus.

About you

Master degree in embedded systems, electronics or IT science, you have a strong appetence for technological challenges and at least 3 years' experience in embedded software development. You're motivated to work in an international environment and are fluent in English. Your open-mindedness, your taste for teamwork and your creativity will be the assets you need to succeed in your missions.

You want to evolve towards technical expertise by developing your skills in a demanding context of operational safety.

Do you recognize yourself in this description? Apply and join a company that promotes innovation in the development of its unique products to design tomorrow's products, dynamism and open-mindedness in listening to and common respect for its customers and employees.