



3D AEROSPACE

3D/2020/ENG/005 Job opportunity - ATE

(Junior) Embedded systems & SoC Engineer



3D Aerospace

3D Aerospace (www.3daerospace.eu) is a dynamic European start-up established in June 2018. 3D Aerospace is located at Albi (South of France) in the incubator of the Ecole des Mines. 3D Aerospace has received several funding (local, national and European) in order to manufacture and test its first prototypes in 2020. The company is developing an innovative new generation of GNSS (GPS / Galileo) receiver targeting the 4.0 industry applications.

The company is based on equality gender, positive working atmosphere, hard work transparent communication and continuous improvement. 3D Aerospace proposes a safe environment to make innovation happens. As a high technology company, failures are perceived as an opportunity to learn and to improve as long as a rigorous and structured work has been applied.



Job description

During the period of the contract, the selected candidate will have the following responsibilities:

1. Embedded systems Designer

As an embedded software designer, you will be in charge of:

- 1.1. Maintaining the system requirements as well as the subsystem requirements related to software.
- 1.2. Developing & implementing the embedded software algorithms related to RF/wireless concepts and vision.
- 1.3. Being experienced with programming techniques for embedded microprocessor (System On Chip).



3D AEROSPACE

- 1.4. Being experienced with real-time operating system programming techniques.
- 1.5. Designing, developing and optimizing (memory consumption and processing time) the chosen algorithmic solutions on the embedded platform.
- 1.6. Contributing to our internal development and coding rules

2. Hardware / Software interface Bridger

As an HW/SW designer, you will be in charge of:

- 2.1. Understanding the hardware needs from the engineering team and being able to translate the needs into clear, qualified and quantified requirements.
- 2.2. Reviewing the latest sensor and component development in order to always improve the manufacturing, performances, cost efficiency of the different printed boards.
- 2.3. Providing engineering support to the hardware team while integrating the software into the hardware.
- 2.4. Being familiar with the USB, SPI, I2C, UART communication protocols.
- 2.5. Writing Design Justification report and other technical reports.
- 2.6. Collaborating with hardware team for the integration and image quality tuning teams

3. Software Tester

Finally, as a software tester, you will be in charge of:

- 3.1. Developing the test environment for validation, verification and non-regression of algorithms.
- 3.2. Delivering fully tested solutions (objective and subjective performance evaluations).
- 3.3. Preparing the qualification tests and acceptance tests through dedicated milestones.
- 3.4. Writing test reports following the completion of the tests.
- 3.5. Designing and developing performance metrics and tools used for the integration and the tuning of our solutions within the final products



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Requirements

Soft Skills										Minimum Requirements										
Team spirit										Xilinx SDK - Vitis										
Hard-worker										English										
Motivator										French										
Communication										Linux OS										
Team Mentality										C/C++										
Willingness and Ability to Learn										Embedded software degree (MSc or Meng)										



Additional Information

Location: 20 Chemin de la Teuliere, Albi, 81000 France

Desired start of contract: September - October 2020

Duration: An initial 12 months fixed term contract with a possible 18-month extension leading to a permanent contract.

Working Language: English

Annual salary: 30 000€ per year (before tax) which is composed of a fixed salary of 27 800€ and bonuses up to 2 200€.

Contact email address: contact@3daerospace.eu

Working conditions: 3D Aerospace is a small team of passionate and hard worker people. Our small size is actually one of our man strengths as it provides agility, flexibility and a sense of family-size company. Our organisation is based on daily scrums and monthly milestones review.

Visa requirements: Being able to work on French territory.

Application process:

1. Please send your CV in English at @contact@3daerospace.eu



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2. One case study to prepare offline
3. One interview with 3D Aerospace core team.