



3D AEROSPACE

3D/2020/ENG/006 Job opportunity - ATE

(Junior) Embedded systems & Android Application 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. Android application Designer

As a hardware designer, you will be in charge of:

- 1.1. Maintaining the system requirements as well as the subsystem requirements related to the android application.
- 1.2. Having strong knowledge and experience of Android UI development.
- 1.3. Being experienced with programming techniques for embedded microprocessor.



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- 1.4. Being experienced with real-time operating system programming techniques.
- 1.5. Designing, developing and optimizing (memory consumption, battery consumption and processing time) the chosen algorithmic solutions on the embedded platform.
- 1.6. Being familiar with technologies like Firebase, AWS, Git.
- 1.7. Being familiar with open source libraries such as OpenStreetMap.
- 1.8. Contributing to our internal development and coding rules
- 1.9. Listening and applying feedback from your teammates, customers and peers

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 testing the interface smartphone application.
- 2.4. Being familiar with the Bluetooth, WIFI, GPS communication protocols.
- 2.5. Writing Design Justification report and other technical reports.
- 2.6. Collaborating with hardware, software and database teams for the development of the end to end system.

3. Software Tester

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

- 3.1. Defining test need and approach and prepare test plan.
- 3.2. Establishing, prepare and monitor the qualification tests and acceptance tests according to agreed planning, budget and quality.
- 3.3. Ensuring quality process via preparing appropriate milestones (MRR, TRR, PTR, TRB).
- 3.4. Design and ensure availability of test MGSE or EGSE depending on test needs.
- 3.5. Writing mechanical and electronic test procedures to test the eHermes receiver.



3.6. Writing test reports following the completion of the tests.



Requested Skills

Soft Skills										Minimum Requirements										
Team spirit										Android Studio										
Hard-worker										English										
Motivator										French										
Communication										C/C++										
Team Mentality										Javascript										
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



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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](mailto:contact@3daerospace.eu)
2. One case study to prepare offline
3. One interview with 3D Aerospace core team.