



3D AEROSPACE

3D/2020/ENG/004 Job opportunity - ATE (Junior) Electronics Hardware 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. Electrical Design Engineer

As an electrical design engineer, you will be in charge of:

- 1.1. Maintaining the system and hardware subsystems requirements.
- 1.2. Creating new and modifying existing PCB hardware through trace and surface mount soldering while maintaining the bill of materials.
- 1.3. Creating and maintaining PCBA manufacturing folder (Design justification, 2D drawing, gerber files, schematics, component datasheet and libraries).
- 1.4. Working directly with suppliers to solve electrical design problems.



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- 1.5. Understanding fundamental electrical and electronic components and their functions such as LDOs, passive components, DC/DC converters, Arduino hardware/ firmware, and LCD displays.
- 1.6. Being aware of the latest development in the industry (technology scouting).
- 1.7. Collaborating with project team members such as Mechanical Engineers, Project Managers, Industrial Designers, Operations subject matter experts, and external suppliers during product design and release to integrate multiple project requirements into a cohesive design
- 1.8. Providing task summaries to the project team to create and maintain accurate project schedules.
- 1.9. Communicating risks and opportunities to the project team and functional management.

2. *Hardware / Software interface Engineer*

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

- 2.1. Understanding the software 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 software 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 software team for the integration and image quality tuning teams

3. *Electronics Tester*

Within the test engineer role, 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.



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- 3.3. Ensuring the 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.



Requirements

<i>Soft Skills</i>								<i>Minimum Requirements</i>								
Team spirit								ECAD software								
Hard-worker								English								
Motivator								French								
Communication								Word – Excel								
Team Mentality								Arduino								
Willingness and Ability to Learn								Electronics degree (MSc or Meng)								



Additional Information

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

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

Start Date: September 2020

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.

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.