EmTroniX

Electronic Test technician

Work environment

For more than 20 years, EmTroniX designs and produces advanced electronics and embedded software for NewSpace applications. The company gathers seven fields of expertise in-house to have an extended technical knowledge in electronics, embedded software, digital signal processing and telecommunication systems design.

Recently, EmTroniX decided to focus on the development and commercialisation of its new products portfolio and engineering services based on these products.

Our future Electronic Test technician will work closely with the electronics team to develop our New Space product.

EmTroniX is an energetic, human-sized and innovative engineering company with more than 30 international employees.

Key responsibilities

Electrical and Functional Testing:
- Perform Tests of electronic functions at board level.
- Perform Tests of device at system level, containing one or multiple boards.
- Elaborate test plan and test procedure, describing the work that will be performed.
- Perform the testing and create test report based of previously elaborated test procedure.
- If needed, design both small analog and digital circuits to allow testing of specific functions.
- Implement/modify PCB according to manufacturing order and create manufacturing orders if needed.
- Participate to the review of PCB designs provided by the team or customers.

Software Requirements:
- Test Automation: execution and test reports.
- Define software requirements for electronic hardware testing and validation.
- Implement test script in Python.

Documentation:
- Develop technical and official documentation, including contribution and review of test procedures / prepare test reports.

Laboratory Management:
- Ensuring tests can take place properly (environment setup, availability of consumables in collaboration with Procurement).
- Lab equipment tracking, calibration in collaboration with Quality Assurance and availability.

Preferred skills

- **Schematic Capture and PCB Layout:** Experience in schematic capture and PCB layout, preferably using Altium.
- **RF and FPGA Design:** Knowledge and experience in RF and/or FPGAs.
- **Circuit Calculation and Simulation:** Proficiency in circuit calculation and simulation, particularly using LT Spice.

- **Software Proficiency:** Familiarity with Office 365 tools, including Word, PowerPoint, Excel, and MS Project.

Who are we looking for?

- **Solid Electronics Expertise:** Extensive experience in electronics testing, encompassing boards, processors, analog circuit, high-speed memories, and microcontrollers.
- **Laboratory Equipment:** Knowledge of and competence in using general laboratory test equipment.
- **Communication Skills:** Excellent written and oral communication skills to effectively convey technical information.
- **Analytical and Problem-Solving Skills:** Strong analytical skills and a proven ability to solve complex problems.
- **Scripting Languages**: Proficiency in scripting languages such as Python, and familiarity with other relevant scripting languages**.**
- **Language Skills:** Fluent in English; proficiency in French or German is a significant asset.
- **Educational Background:** A Bachelor's degree in electronics engineering or an equivalent qualification. (Master's degree preferred)
- **Experience:** Over 5 years of relevant experience in electronic hardware testing, circuit design, and project management.
- **Autonomy:** Ability to strike the right balance between working fully autonomously and seeking expertise / support for problem-solving.

Interested in this job offer? Don't hesitate to send us your resume at <ins>info@emtronix.lu</ins>