Intern Test Engineering

Apply

📍 France - Rousset

💼 Full time

🕐 Posted 30+ Days Ago

📄 R5124-23

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Job Description:

Reporting to the MPU32 Embedded test solution manager you will be part of System on Module and reliability test solution. As a Test Engineering Intern, you will contribute to the enhancement of the MPU32 System On Module production test programs, by the refactoring of existing programs and libraries, the proposition of a program template, its validation on existing test hardware, and will work on the development of a test execution monitor at device level that will interact with the test session controller application and computer to get the test binaries, associated parameters and other instructions (log details, breakpoints ...)

What's attractive about this opportunity?

This position will expose you to the architecture of the MPU32 SOMs, IAR embedded code development IDE, MPU32 ARM bare metal C code libraries, "CICD" system, architecture of test boards.
It will allow you to discover the MPU32 ARM architecture, how to develop and debug C code based on existing hardware support libraries, using the IAR IDE environment.
You'll contribute to the enhancement of the production test solution by the rationalisation and refactorization of an existing program, the proposition of a template for the next program developments.
To Improve the flexibility of the code development, the ease of unit test debug and reduce test time in production, you'll work on a test command monitor running at MPU level that will allow the execution of the individual tests in either SRAM or DDR, the transmission of test parameters and other instructions.
You'll evaluate the implementation of a CICD solution to automate the validation and test of these solutions.

More details on the expectations and responsibilities in this position:

- Keywords: System On Module, IAR IDE, IAR project, embedded C, MPU Arm 32bits architecture, memories (SRAM ,DDR, QSPI, NAND ...) , CICD, evaluation and production test boards.

Requirements/Qualifications:

Qualifications and Experience

- Final Year of Electronics Engineering School, Systems Engineer, Microelectronics and Computer Science

Competencies

- Microcontroller / microprocessor architecture
- Embedded C code development knowledge, execution and debug on target application.
- Experience with one IDE (best would be "IAR")
- C programming good practices
- Nice to have: some experience of a source code versioning system, Linux scripts,
- Technical English

Travel Time:

0% - 25%