Staff/Senior Staff Engineer - Chip Verification/ Pattern Development

Job description

You will be primarily responsible for developing embedded software to verify automotive microcontroller SoC and performing power estimation and measurement using emulation and simulation test bench environment.

In your new role you will:

- **Develop embedded software** to verify automotive microcontroller SoC.
- Perform **power estimation and measurement using emulation and simulation** test bench environment
- Conduct **data-driven verification** by collecting, analyzing large amount of data set generated from test and measurement setup.
- **Collaborate** with cross-function teams in multiple countries.
- Improve **verification coverage** based on customer use cases and system understanding.
- **Debug SW/HW interaction** in both **source code and signal/waveform level.**

For a more senior role, you will also

- **Lead a team technically** through exploring new environment and identifying potential enhancement areas through new methodology.
- **I dentify and setting mid/long term goals** based on benchmarking against industry standards.

Profile

You are best equipped for this task if you have:

- Masters/Bachelors in **Electrical Engineering** or Computer Science with **6-12 years** of relevant work experience.
- Programming experience in **C or C++** with Object-Oriented design mindset is a must
- Experienced in **embedded software development and Python programming**
- Proven experience in embedded systems design with pre-emptive multitasking real-time operating systems
- Having knowledge in **OS coding techniques, IP protocols, interfaces and hardware** subsystems is advantageous

At a glance

Location: **(Singapore)**
Job ID: **353354**
Start date: **as soon as possible**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

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- Understand **SoC test pattern development flow** and working knowledge on **emulation/test patterns** is a plus
- Good understanding the usage of verification tools like **Xcelium and Simvision** is a plus
- Experienced in **simulation/debugging skills in RTL Simulation/Emulation/Tester** environment is advantageous
- Hands-on experience with portable stimulus tools, e.g **Perspec** is a plus
- Exposure to **version-controlling (eg, Git/Bitbucket, Clearcase, CVS, SVN) and bug-management schemes** is a plus
- Knowledge on **ISO26262** and **ISO21434** is advantageous
- Self-motivated, flexible and with strong interpersonal skills
- Good communication with interpersonal skills and is a good team player who is able to work well with both internal and external partners.
- Candidate who has more relevant working experience will be considered for a more senior position.

Why Us

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Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

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