



Staff/ Senior Staff Engineer - SoC Functional Verification (Radar)

Job description

Automotive Microcontroller: We make cars clean, safe and smart As a leading automotive microcontroller vendor, the Infineon business line Automotive Microcontroller (ATV MC) offers the industry's most comprehensive vehicle microcontroller portfolio and complements it with software. We serve automotive key applications, such as powertrain, advanced driver assist, chassis, body, instrument cluster and infotainment. We also address high-performance dependable computing, real-time domain and zone control, smart sensing and affordable artificial intelligence (AI) applications enabling the next stages of automated driving as well as higher levels of car connectivity, digitalization and security. Being at the core of this transformation, ATV MC contributes to shape the future of mobility enabling clean, safe and smart cars. So join us to create a better future together. #AutomotiveMicrocontroller

In your new role you will:

- **Execute SoC verification tasks** and work closely with team members to **review and understand the relevant functional and safety-related requirements.**
- **Write verification plans** to meet these requirements after close alignment with other verification teams for proper work split according to mutually acceptable verification assignment.
- Execute the verification plan by **developing C/C++ test cases** and **SystemVerilog /UVM testbench components** and by integrating 3rd party VIP components.
- **Simulate and debug at RTL, Unit Delay, and Gate Level** using appropriate tools and flows including **Emulator, Portable Stimulus, or Formal methodologies for functional and toggle coverage closure.**

Profile

You are best equipped for this task if you have:

- Masters/Bachelors in Electrical Engineering or Computer Science with minimum 5 years of relevant work experience.
- Strong foundational knowledge of **digital design & verification.**
- Advanced knowledge and hands-on experience of **SystemVerilog and UVM.**
- Hands-on experience in **hardware-software debugging** at the system or application level. Hand-on experience with gate-level-simulations and with debugging/troubleshooting skills
- **Candidate must have Radar Signal Pre and Post Processing modules (SPU, RIF, RDMA, RMEM) design and verification knowledge.**

At a glance

Location: **(Singapore)**
Job ID: **346966**
Start date: **as soon as possible**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

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- Verification experience of Preprocessors like PPU or general CPU peripherals is a plus.
- **Exposure to version-controlling (eg, Git/Bitbucket, Clearcase, CVS, SVN) and bug-management schemes like JIRA.**
- Dynamic and energetic with a zero verification escape mindset.
- Self-motivated, flexible, good communication with interpersonal skills and is a good team player who is able to work well with both internal and external partners.
- Candidate has proven ability to achieve results in a very dynamic, multi-site environment and be able to coordinate with priorities and self-initiatives
- Experience in the **automotive industry** in functional safety and cybersecurity are advantageous.
- Candidate who has more relevant working experience will be considered for a more senior position.

Why Us

Part of your life. Part of tomorrow.

We make life easier, safer and greener – with technology that achieves more, consumes less and is accessible to everyone. Microelectronics from Infineon is the key to a better future. Efficient use of energy, environmentally-friendly mobility and security in a connected world – we solve some of the most critical challenges that our society faces while taking a conscientious approach to the use of natural resources.

In accordance with the requirements set by the Singaporean Government, Infineon Technologies Asia Pacific Pte Ltd (“Infineon”) can only allow individuals who are (a) fully vaccinated, (b) certified to be medically ineligible for a vaccine or (c) have recovered from COVID-19 within a prescribed period, onto company premises. Therefore, Infineon requires all new employees, as well as contractors and business partners, to be fully vaccinated against COVID-19. “Fully vaccinated” means individuals have completed the full regime of an approved COVID-19 Vaccine as listed under the World Health Organization (WHO) Emergency Use Listing (EUL) including the respective post-vaccination period to ensure the vaccine has become full effective. Anyone who is unable to be vaccinated due to an approved and/or recognised exemption condition may apply for special consideration.

