



Principal - Chip Verification Engineer

Job description

Are you a skilled and charismatic engineer who is keen to be part of the technical leadership for our Chip Verification team? We are looking for a star candidate who can define verification strategies and implement next generation of verification environment architecture. 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:

- Be part of the **technical leadership for Chip Verification** in a multi-site organization
- Drive together with **Chip Verification Architect** on **defining verification strategy (Constrained random, Formal, Directed) for Chip/System-level verification**
- Implement the **next generation of verification environment architecture and methodology development**
- **Drive topics forward** together working with various internal and external experts (e.g. application, analog/digital/mixed-signal, software, patterns) as well as management
- Actively participating and contributing in **cross-functional collaboration** with design, software and hardware teams across multiple design sites, to ensure a successful product delivery
- Ensure **verification for the Chip/System** from **product requirements, test plan, test cases development and driving functional and code coverage closure**
- Own and create technical documentation in order to provide documents to guarantee the **ISO26262 and ISO21434 compliance**
- Represent **technical competence in Chip Verification** and act as a technical leader by actively sharing your knowledge
- Work closely together with Infineon representatives of standardization committees for automotive standards

Profile

At a glance

Location: **(Singapore)**
Job ID: **343778**
Start date: **as soon as possible**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

Apply to this position online by following the URL and entering the Job ID in our job search:

Job ID: **343778**
www.infineon.com/jobs



You are best equipped for this task if you have:

- Masters/Bachelors in Electrical/Electronic Engineering with **12+ years** of relevant work experience in **highly complex Chip Development**.
- Strong foundational knowledge of **digital design & verification**.
- Advanced knowledge and hands-on experience o **f System Verilog and UVM**.
- Hands-on experience in **hardware-software debugging** at the system or application level.
- Hands-on experience with **C-based tests development** and debugging.
- Experience in **Network on Chip (NOC), AMBA, AHB/AXI and ARM is a plus**.
- Experience in **low power and high-performance computing** are preferred
- **Firmware/software experience** is advantageous.
- **RTL design** and synthesis experience is advantageous.
- Experience in the automotive industry in functional safety and cybersecurity is a plus.
- Details oriented with excellent written and verbal skills are required.

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.

