



Senior Staff Engineer Verification & Validation Engr

Job description

• 8-12 years of experience in the industry with relevant experience in the area of SoC / Microprocessor / Microcontroller verification, validation and customer support

Technical Contributor for Project Delivery:

- Own and drive functional validation & characterization of Gigabit Ethernet and its interactions with other interfaces and IP Modules (e.g., other high and low speed interfaces, DMA, Interrupts, reset, clocking etc.,) for sub-system and system level validation of Microcontrollers
- Responsible and accountable for own deliverables on-time & with quality
- Closely work with Project Management [PJM], Management and Technical community to align on PSV activities
- Work with Application & Concept Engineers, IP designers, Verification, Validation and Software teams to collect requirements on validation, prepare the validation strategy and plan, review it with stakeholders and release the final Validation plan to stakeholders
- Own and drive Silicon validation using functional, use cases/applications and requirements-based validation methodologies and test instruments.
- Conceive and develop validation infrastructure & testcases to effectively validate and deliver quality product
- Prepare the Validation reports, review it with stakeholders and release the final Validation reports to stakeholders
- Ownership in reviews - code, design, validation plans / reports etc.,
- Support technical debug of customer issues by working closely with the required stakeholders & provide technical solutions

Stakeholders & Team Relationship:

- Develop harmonious relationship within local and cross-site stakeholders i.e. Management, PJM, Concept, Design, Application, Software, Verification and Validation Engineering teams.
- Be a positive team player by regularly sharing information, supporting, collaborating and working effectively with team members
- Become the owner of one or more SoC functional areas in Bangalore and expand to influence across MC D organization with positive impact

At a glance

Location: **Bangalore (India)**
Job ID: **314297**
Start date: **as soon as possible**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

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- Meet or exceed customer expectations with respect to assigned goals for Validation

Innovation:

- Contribute to Innovation activities in MC D organization
- Contribute to continuous improvement process for development of methodologies, and tools/environment for high quality SoC validation within the scope of time, cost and resources.

Profile

- Exposure to validation & characterization of Gigabit Ethernet and other communication interfaces such as SPI, I2C, CAN etc., is a must
- Working experience in IEEE802.1, IEEE802.3, Ethernet Physical layer, MAC, TCP/IP, MII /SGMII/RGMII interfaces upto 10Gbps, programming external Ethernet Phy devices, Ethernet analyser, debug, board setup, programming MAC layer and embedded C programming
- Experience in silicon validation & power measurements using functional, usecases /applications and requirement-based validation methodologies
- Familiarity with Pre-Si verification methodology, Post-Si validation concepts, test plans, post-Si validation environment, validation test case writing & debug with the required instruments, tools and environment
- Experience in C, assembly, Perl / Python / Shell scripting is a must
- Working knowledge of UNIX, Windows and embedded operating system
- Working knowledge on FPGA based validation, emulation / simulation / Perspec would be an added advantage
- Experience in using lab equipments such as Oscilloscopes, Protocol Analyzers /Exercisers, Power benches, Mid-bus Probes, Logic Analyzers, Debuggers such as PLS, Lauterbach etc. is mandatory
- Candidates must have strong written and verbal communication skills
- Good team player experienced in working with cross-site and cross-functional teams
- Technical abilities demonstrated through ideas conceived & deployed
- Works effectively with engineers and stakeholders from the requirement phase till product delivery to customers
- Serves as focal point for the technical areas owned
- Facilitating and making trade off decisions between quality, costs, resources, scope and time
- Strong discipline and attention to detail in ensuring effective and high-quality validation that minimizes bug escapes to customers
- Innovative mindset and contributing to process improvements where applicable and gaining domain expertise to be able to independently validate one or more areas of SoC.

Benefits

- **Bangalore:** Coaching, mentoring & networking possibilities ; Wide range of training offers & planning of career development; Regional and local talent programs; International assignments; Career paths: Management career, Project management career, Technical ladder career, Individual contributor career, Professional career; Flexible work timing, Part time work, Work from home; Home office; Health & wellness reimbursement, Employee motivation forum, Spoorthi – Diversity club, Master health check up, Health promotion campaigns; Crèche facility; Annual success bonus; Mediclaim (dependents & top up), Personal accident, Term life; National Pension Scheme; Health promotion programs; Statutory benefits; Access for wheelchairs; On-site canteen; Paid sick leave, long term illness leave; On site Yoga classes, Sports club

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.

