



## Senior Staff Specialist Validation Engineering

### Job description

In your new role you will:

The candidate will be responsible for the post-silicon validation of XSPI/ HSSL and other high-speed communication interfaces & sub-systems in Automotive [ATV] Microcontrollers.

He / She will contribute to the development and application of ingredients such as, but not limited to, hardware, validation strategy, validation plans, testcases, applications /use-cases, debugs and automation for Post-Si validation [PSV] of Microcontrollers for MC D organization within ATV, with a good understanding of the validation infrastructure in terms of test instruments, tools and automation framework

- Own and drive functional validation of XSPI/ HSSL and other communication interfaces 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 Automotive 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

### At a glance

Location: **Bangalore (India)**  
Job ID: **318682**  
Start date: **as soon as possible**  
Entry level: **5+ years**  
Type: **Full time**  
Contract: **Permanent**

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# Profile

You are best equipped for this task if you have:

- 10-15 years of experience in the industry with relevant experience in the area of SoC / Microprocessor / Microcontroller verification, validation and customer support
  - Exposure to validation & characterization of high-speed communication interfaces such as XSPI, HSSL, Flash interfaces etc., is a must
  - Experience in silicon validation 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.

Automotive (ATV) shapes the future of mobility with micro-electronics enabling clean, safe and smart cars –

Semiconductors are essential to realize key trends like eMobility, automated driving



and secure, connected cars. Infineon ATV is the #1 semiconductor partner in the fast-changing automotive world, based on our system knowledge coupled with our passion for innovation and quality. We are a key driver in the ever-advancing pace of digitalization in the automotive industry.

[Click here](#) for more information about working at ATV with interesting employee and management insights and an overview with more #ATVDreamJobs.

Automotive High Power: We Drive the Electrification of Cars

Our vision of the future is CO2-neutral and autonomous mobility, and that means electric cars. Infineon's role: our switches control the current from the battery to the consumers, whether a traction motor, a power steering system or an in-car USB charger. In fact, our products have a direct impact on the range, size, reliability and affordability of tomorrow's vehicles. Engineers at the Business Line Automotive High Power, which is part of the ATV division, draw on their deep customer understanding and system knowledge to create a winning portfolio. This approach has made the Business Line the market leader. Our people have the ambition to shape the future with innovation. We are a highly diverse and ambitious team striving to power society's move toward fully electric, CO2-neutral, autonomous mobility.

#PowerForElectromobility

#### Quality Management

Infineon's Quality Management department acts proactively to satisfy the needs of our customers to increase their success and to ensure 'best in class' product quality. Internally the department develops a living quality culture at all levels within the automotive division and at our partners.

#### Microcontroller

The Infineon business segment MC (Microcontroller) is strongly growing with latest TriCore Microcontroller generation AURIX, offering latest innovation in performance, connectivity, power consumption, safety and security. Furthermore, the key application segments are targeting segments with high innovation potential and highest market growth such as Advanced driver Assistant systems. As part of the automotive business unit the focus of MC is on the requirements of the automotive market from motor cycle to truck applications. #AutomotiveMicrocontroller

