

IC Digital Design Engineer

Descrição da função

- He is responsible to carry out all assigned tasks with focus on function, quality, test architecture, test coverage, schedule and delivery of verification in time.
- Together with other discipline's developers the Verification engineer is defining integration concepts, specifying the IC test requirements, defining related test architecture and verifying implemented functions. The is taking care about process implementation and schedule
- IC (ASIC) Verification Engineer is responsible for developing functional models for Analog and/or Digital IPs, Developing Digital and Analog/Mixed signal Test-benches, Interaction between IPs at chip level (analog and digital), Developing test-benches, Functional verification, Technical support of co-workers and IP designers, Provide technical support to test engineers
- Collect, discuss and evaluate requirements related to IC test & validation concept(s) in cooperation with other discipline's developers
- Actively support system and/or IC concept and architecture definition considering feasibility with semiconductor technologies and test strategy
- Apply new validation concepts to the design verification.
- Define requirements of the IC validation together in cooperation with other discipline's developers
- Specify IC validation characteristics and interfaces within component specification document
- Responsible for the technical communication with the ASIC supplier during the whole ASIC development
- Judge and approve simulation/design results in consideration of defined system requirements
- Decide on optimal IC verification concept based on simulation results and worst-case calculations
- Evaluate technical and development risks for IC development together with ASIC PM
- Plan time schedule for dedicated ASIC project tasks, track validation progress, perform bench tests
- Create and maintain development documents
- Apply configuration and change management, apply quality assurance management
- From circuits specifications, ASIC verification engineer should specify verification strategies and testbench architectures (SystemVerilog, UVM, C-driven, others) to ensure optimum verification coverages
- Elaborate detailed verification plans corresponding to circuit specifications
- Develop verification environments and tests/sequences according to verification plans
- Responsible of the definition of the verification strategies, of their implementation and of the verification quality
- Improve the verification flow



Identificação da vaga
REF4587R

Local
Bengaluru

Nível de liderança
Leading Self

Pessoa jurídica
**Continental Automotive
Components Private Ltd.**

Requisitos

- Master of Science in Electrical Engineering/Microelectronics/ VLSI design or similar qualification.

Bachelor of science with advanced course in VLSI Design

O que oferecemos

- Integrated circuits digital/ analog (e.g. high voltage analog CMOS and BCD)
- 10+ years experience in IC design and verification / validation
- Automotive product development
- IC design/synthesis tools, good understanding of the physical design flow a plus (e.g. Cadence, Synopsys)
- Office tools (e.g. MS office, Visio)
- Worked on IPs (e.g. SPI, I2C, HDMI, RSDS, OpenLdi, PSI5, Ethernet, CAN...)
- VHDL, Verilog
- UVM test methodology
- System Verilog, SystemC (optional)

Working in international development network

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Quem somos

Since its spin-off in September 2025 AUMOVIO continues the business of the former Continental group sector Automotive as an independent company. The technology and electronics company offers a wide-ranging portfolio that makes mobility safe, exciting, connected, and autonomous. This includes sensor solutions, displays, braking and comfort systems as well as comprehensive expertise in software, architecture platforms, and assistance systems for software-defined vehicles. In the fiscal year 2024 the business areas, which now belong to AUMOVIO, generated sales of 19.6 billion Euro. The company is headquartered in Frankfurt, Germany and has about 87.000 employees in more than 100 locations worldwide.