Senior ASIC Design Engineer

Responsibilities

- As a Senior ASIC Design Engineer, the individual's primary responsibility will be RTL design. This will include system/block/function definition, specification, design, simulation and unit level verification of digital functions
- Lead processor core or SoC subsystem design tasks as a lead of a team working on multiple production projects.
- Perform unit level testing on the RTL function supporting the DV team by writing self-checking tests as required.
- Support all design integration activities like Lint, CDC, SDC, Synthesis and ECO working with Physical Design Team on constraints, PPA, STA, physical, power and logical issues.
- Work closely with the verification team to review specifications, understand SoC / Core architecture, develop tests and coverage plans, define methodology and test benches.

Qualifications

- B.S. or M.S. in Electrical, Electronics, Computer Engineering, Computer Science.
- 5+ years of digital design, RTL coding in Verilog/SystemVerilog and verification flow (RTL design, simulation, testbench development, regressions, etc.)
- Strong knowledge of CPU (RISC-V, Arm), IP/Subsystem, interconnects and industry standard interfaces (AMBA, TileLink, NoCs, etc.).
- Have experience of writing scripts in languages such as Python, Perl, and Tcl.
- Strong understanding of digital design flow including RTL simulation, logic synthesis, timing SDC constraints, timing closure, STA, back annotation of parasitics, gate level simulation and equivalence checking.
- Experience of constrained random verification process, functional coverage, and code coverage.
- User of industry standard Cadence or Synopsys EDA tools for verification, Synthesis, DFT, STA, lint, CDC, etc.
- Strong understanding of ASIC test methodology such as scan insertion, memory BIST and automated test pattern generation (ATPG) will be a plus.
- Familiar with FPGA based prototyping.
- Experience with low-level programming of systems in C/C++/assembly.
- Strong problem solving and analytical skills.
- Excellent oral and written communication skills in English.
- Strong interpersonal skills and the desire to take on diverse challenges.

Aql Tech Solutions

Aql Tech Solutions (Pvt) Limited is a leading commercial provider of a range of RISC-V processor IP cores and solutions targeted for markets, such as datacenters, 5G, edge, AI, mobile, networking, storage, consumer devices and more. Aql Tech Solutions has been founded by industry veterans with strong semiconductor industry experience in the USA and Pakistan.

Aql Tech Solutions (ATS) is based in Islamabad, Pakistan is looking for highly innovative and driven individuals with a passion to work in a professional and high growth environment. Our goals are to develop strong technical talent, skills and to bolster holistic growth of all employees.

We provide a unique career advancement atmosphere, a generous financial package and an opportunity to be part of the highly advanced global semiconductor industry.

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www.aqltechsolutions.com

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