



WHO WE ARE

ASI is a multinational fabless semiconductor company started in 2010. Our company has locations in US silicon valley and Asia. Our technical leaders have 25+ years experience in designing Low-Voltage and Low-Power Analog IC, Mixed-Mode IC, Sensor IC and ASIC. Our designs and technologies have been successfully used in an estimated 1 billion chips/devices. Our customers include US, Japan, China, Europe and Asia companies spanning in consumer, medical and industrial applications.

01

ANALOG IC DESIGN ENGINEER

Job descriptions: Design custom Analog IC, mixed-signal IC, sensor IC. Our products are used in consumer, medical and automotive areas. You will be designing IC from concept -> design -> simulation -> layout -> prototyping -> fabrication -> evaluation

Skill requirements: You must understand the basic device physics, have the ability to develop and use advanced linear and nonlinear models to translate between the model, simulation, physical implementation, and the measured performance of a device. You must be able to break down complex problems, set priorities, report progress, execute to a schedule, and have strong people skills. - Knowledge of advanced circuits such as Filter, OpAmp, ADCs, DACs, switched-capacitors circuits, drivers, noise, bandwidth, digital circuits, etc. - Knowledge of Layout, Tapeouts, Metal Rules, Electromigration, Matching, Inductance voltage bouncing, etc. - Experience with Analog IC circuit design and testing

02

SENIOR ANALOG IC DESIGN ENGINEER

Job descriptions: Design custom Analog IC, mixed-signal IC, sensor IC. Our products are used in consumer, medical and automotive areas. You will be designing IC from concept -> design -> simulation -> layout -> prototyping -> fabrication -> evaluation

Skill requirements: You must understand the basic device physics, have the ability to develop and use advanced linear and nonlinear models to translate between the model, simulation, physical implementation, and the measured performance of a device. You must be able to break down complex problems, set priorities, report progress, execute to a schedule, and have strong people skills. - Knowledge of advanced circuits such as Filter, OpAmp, ADCs, DACs, switched-capacitors circuits, drivers, noise, bandwidth, digital circuits, etc. - Knowledge of Layout, Tapeouts, Metal Rules, Electromigration, Matching, Inductance voltage bouncing, etc. - Experience with Analog IC circuit design and testing

03

DIGITAL ASIC/FPGA DESIGN ENGINEER

Job descriptions: Design custom digital ASIC, digital FPGA. Our products are used in consumer, medical and automotive areas. You will be designing ASIC from concept -> design -> FPGA prototyping -> prototype testing -> ASIC layout -> fabrication -> evaluation
Responsibility for the overall design of digital logic blocks from an architectural specification, RTL design, block level verification, synthesis, timing constraints - through full-chip sign-off.

Skill requirements: The Responsibility also includes supporting design verification to tapeout. Strong understanding of digital circuit design and EE concepts
Logic design experience using Verilog. Experience with architecture, specs, documentation, coding in Verilog and debugging. Experience in full ASIC design flows
Knowledge in verification processes

04

SENIOR ASIC/FPGA DESIGN ENGINEER

Job descriptions: Design custom digital ASIC, digital FPGA. Our products are used in consumer, medical and automotive areas. You will be designing ASIC from concept -> design -> FPGA prototyping -> prototype testing -> ASIC layout -> fabrication -> evaluation
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