

Sr Engineer (FPGA Design) - JD(DJD2021031)



Roles	Sr Engineer- FPGA Design
Responsibilities	<ul style="list-style-type: none"> • Meeting with design and engineering teams to determine FPGA requirements. • The role involves contributing to the entire FPGA based product development flow starting from requirement analysis till final product testing in lab environment. • The candidate will be responsible for design and implementation of the logic in VHDL for targeted FPGA, writing test benches to validate the design etc. • Troubleshooting and diagnosing errors and suggesting suitable repairs or modifications • Job involves frequent interaction with board design, software, testing and lab teams to deliver the product meeting the customer requirements. • Conducting the internal/External design reviews to ensure adherence to the company design process.
Category	Description
Qualifications	BE/ME in Electronics, Specialisation in VLSI and Embedded Design is a plus
Experience	3 to 6years experience designing and implementing FPGA based solution in Xilinx or Altera FPGA, preferably FPGA based product development experience, executing projects in Defence / Industrial , Rail , Healthcare, Retail Automation, etc. in Electronic Domain
Technical & Process Capabilities	<ul style="list-style-type: none"> • Generation of FPGA requirements document and FPGA design documents • Design architecture for FPGA based solutions. • VHDL, Verilog based RTL design and Development • VHDL, Verilog based Verification and Validation, Testbench creations . • Knowledge of Xilinx ISE, Vivado, Intel/Altera Quartus & Lattice diamond tools. • Should have worked on PCIe, DDR4, DDR3, Video protocols (HD,SD & Parallel Video processing), ADC, DAC, USB & Ethernet based design experience. • Should have worked on UART, I2C, SPI & Parallel memory interface designs. • Should have knowledge on CLOCK DOMAIN CROSSING DESIGN, STA (Static Timing Analysis) & Debug techniques. • experience in board level testing and system debugging • Should have strong problem solving and debugging skills
Behavioural	Collaborative , Capable to interact / interface with customers, cross functional team Self driven Excellent Communicaiton, verbal & written Passionate & Learning ability
Values	Accountable & Responsible Ethics & Integrity, Knowledge, Collaboration, Caring, Agility, Empowerment with Accountability and Sustainability
Preferred Experience, Knowledge & Attributes	Defence, Industrial , Allied domain Knowledge Solution / system engg capabilities
Compensation	To be filled by HR