



Example of FPGA Design Engineer Job Description

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Our company is searching for experienced candidates for the position of FPGA design engineer. We appreciate you taking the time to review the list of qualifications and to apply for the position. If you don't fill all of the qualifications, you may still be considered depending on your level of experience.

Responsibilities for FPGA design engineer

- Leadership in the design and development of complex FPGA electronics from FPGA selection to architecture, design, implement, synthesize and close timing, simulation, bringup, debug and verification
- Maintenance and development of FPGA-based code to implement algorithms for image capture, data processing and data transmission in an embedded real-time control environment utilizing the latest Xilinx technology and Vivado development tools
- Work closely with software team, providing documentation, debug support, technical expertise and software interfaces
- Verify designs (including SOC architectures utilizing soft-core processors, digital filters, image processing algorithms, and communication interfaces/protocols), design and implement test benches and test plans for both chip-level and system level environments, and create reusable verification environments that can be used across multiple projects
- Work in System Verilog/UVM environment platform and be responsible for generating FPGA verification plan, verification matrix and coming up with verification environments for test and verification of flight FPGA code/modules
- Work collaboratively and in tandem with FPGA design engineers and embedded software engineers
- Span the gap between FPGA system verification and embedded software development

- Designs and Implements with Multi-gigabit Ethernet IP and brings through system integration
- Designs and implements ARM AXI switches and DMAs between processor and FPGA subsystems

Qualifications for FPGA design engineer

- Responsibilities include new business development, pursuit, capture and execution of advanced technologies and systems to support a wide range of customer mission objectives
- Interactions will include internal and external customer representatives concerning proposals and/or contracts
- These products will be used into new space systems in support of highly classified DoD and Intelligence Community missions
- The successful candidate must be willing to stretch beyond their experience base and to take risks to achieve objectives
- The position is best suited to individuals who are self-starters, highly motivated, work well in fast paced multi-discipline team environments, and are able to work with quick decisions for the best interest of the business
- The candidate must be able to handle and embrace ambiguity of customer needs and evolve their approaches if these needs change