JOB DESCRIPTION	**ADI Engineering, Inc.**
Position	Senior Design Engineer
Location	Virginia (Charlottesville area preferred, but may be remote)
Required Travel	0-5%

Company Description

ADI Engineering Inc. is a leading provider of custom design-through-manufacturing solutions for advanced applications in embedded computing, wireless and wireline communications, security, high-speed signal processing, and industrial markets. ADI also develops and manufactures products including reference platforms and single board computers targeting a wide variety of communications and wireless applications. ADI's team is comprised of seasoned professionals averaging over 20 years experience each. Founded in 1990, ADI is a stable, profitable and quickly growing privately held company with corporate offices and R&D facilities in Charlottesville, Virginia, and with manufacturing facilities in the US, Mexico, and Asia. ADI is represented by a worldwide network of distributors.

Job Description & Responsibilities

We are seeking multiple dynamic, talented and broadly based Senior Design Engineers experienced in complex, high-speed board-level digital hardware design, who enjoy multi-tasking in a fast paced, fun and uniquely empowering environment. In this position, you will be focused on full life cycle design and development in a wide array of customer specific applications, and have the opportunity to develop next-generation ADI standard products and reference designs. ADI's Senior Design Engineers typically handle full cradle-to-grave design of complex systems based on Intel IA/x86 embedded architectures, often incorporating FPGA subsystems. Senior Design Engineers at ADI are heavily involved with PCB layout, and they perform board bring-up and validation, assist with system-level integration and testing, develop documentation, and collaborate with internal Manufacturing Support to assure smooth handoff to prototype, pilot and volume production. Work will be project driven, sometimes in a team environment and sometimes individual based, but always requiring direct interface with our customer.

The Senior Design Engineer is expected to self-manage his project work and may handle multiple projects concurrently. You will play an active role in customer proposal generation, requirements planning, customer expectation

management, solution delivery, and problem resolution.

Job Requirements:
A successful applicant will have a BS in Electrical Engineering and at least 10 years of intensive board design experience. A strong understanding of the complete board development flow from requirements definition through schematic capture, signal integrity simulation, PCB layout, board bring-up and validation, and manufacturing handoff is required. Knowledge of or experience with analog design including switching power supplies, data conversion and RF design would also be a plus. The ideal candidate will be self-motivated and self-disciplined. Good presentation and communication skills (written and verbal) are essential. Candidate must enjoy working with customers and in a team environment.

Education & Key Knowledge Areas:
1. BSEE degree required; MSEE degree desired
2. 10+ years experience designing complex, high-speed digital boards incorporating leading edge embedded microprocessor and FPGA architectures
3. Experience interfacing directly with customers for requirements definition and with manufacturing for pilot through high volume production builds
4. Demonstrated understanding of sound EDA product development lifecycle methodologies
5. Experience with Mentor Graphics, Cadence, Allegro or other EDA tools
6. Experience with layout of multi-layer high-speed PCBs highly desired
7. Experience with VHDL or Verilog desired

Key Experience History:
Demonstrates extensive knowledge in the field of printed circuit board oriented solutions. Has successfully served as point of authority and/or source of technical knowledge for complex projects and technical products. Ability to preempt potential problems and provide effective solutions in reaction to application of concepts, techniques, knowledge, or processes. Has displayed original thinking in applying principles, theories, and concepts on a wide range of problems.

Work Model:
Must be self-motivated and able to work independently without detailed work direction. Must be able to work well in a matrix organization and manage sometimes conflicting priorities. Ability to function effectively in ADI's super-flexible, non-traditional office environment using electronic communication tools.