1. Senior R&D FPGA Engineer


GENERAL SUMMARY & OVERALL CHALLENGES
You will provide advanced technical, engineering and/or procurement services to achieve business goals and objectives

KEY RESPONSIBILITIES
- To develop new LIS camera platform, and
- Conduct design review for new electronic design.

REQUIREMENTS FOR THIS POSITION
- PhD, Masters or good Bachelor degree in Electronics or Computer Engineering,
- Minimum 5 years’ relevant experience in an R&D Electronics environment, with product development focus.
- Competent knowledge and successes in digital and analog circuit design.
- Knowledge or experience in some of the following areas:
  - Embedded real-time system development.
  - Familiar with FPGA design & architecture.
  - Working knowledge of Verilog, VHDL, or Xilinx/Altera development tools will be an advantage.
  - Digital signal processing.
  - Digital image processing.
  - High speed serializer/deserializer system.
  - Familiar with high speed I/O standards (USB 3.0, HDMI 2.0, and camera link).
  - Familiarity with FPGA system on chip FW is a plus.
- Excellent communication skills in English and ability to work in global environment.

PERSONAL TRAIT PROFILE
- Keen learner and communication skills with the ability to work independently
- Good presentation skill
- Coaching skill
- Ability in leading a team and/or project
2. Senior R&D Imaging Hardware Engineer


OPENING FOR IMAGING ENGINEERS FOR NEW PROJECT

You will provide advanced technical, engineering and/or procurement services to achieve business goals and objectives in developing microscope electronics/electrical systems.

These includes engaging in product development and product technical support in the Industrial and Medical Devices from Leica Microsystems; applies electronics principles both analog and digital to components and systems, including conducting feasibilities studies of the design to determine ability to function as intended; maintains detailed documentation throughout all phases of research and development; coordinates activities with outside supplier and consultants to ensure the delivery of the supplies or services needed to meet scheduled timelines, etc.

Key Responsibilities
- Design advanced digital imaging systems for Leica market-leading microscopy products to achieve projects-driven goals.

Job Requirements
- PhD, Masters or good Bachelor degree in Electronics or Computer Engineering.
- Minimum 3-5 years’ relevant experience in an electronics R&D environment, with product development focus. Entry level candidates with keen interest in R&D will also be considered.
- Competent knowledge and successes in:
  - Digital and analog circuit design
  - 32-bit Embedded Systems or System-On-Chip (ARM based) design.
- Knowledge or experience in some of the following areas:
  - High speed interface design (DDR3, LVDS, MIPI CSI-2, HDMI, Ser/DeSer and etc)
  - High-speed PCB layout design
  - Embedded real-time system development
  - Designing for EMI/EMC and safety compliance
  - Firmware development using C or C++ on Embedded Linux
  - Conceptual study and realization of a system based on the project/product requirements.
- Project management within the scope of design, which then align to the master project plan.