

JOB SPECIFICATION

Job Title: Senior FPGA Engineer
Site: Dublin
Department: Product Development

Job Overview

FAZ Technology is the Fugro's centre for optical R&D with primary offices in Dublin, Ireland and The Hague, Netherlands. We specialize in optical based sensing solutions for structural health monitoring in offshore and onshore applications. Recent projects include interfacing our optical products with cloud computing platforms and tunnel integrity monitoring. We are planning a new generation of optical interrogators using latest products from Xilinx (Zynq), NXP and NVIDIA offering an opportunity to gain excellent experience.

Main Responsibilities:

This is a development role where you will work as part of a new team designing a real time distributed sensing system consisting of tuneable lasers, high speed DACs and ADCs, microprocessors and high-performance FPGAs. The role involves design and development of new products and the successful candidate needs to be able to display full product life cycle experience.

Experience, skills and qualification required:

- Post graduate degree in a relevant field
- Excellent understanding of FPGA engineering methodology, the roles involved and how these roles are executed in the context of a project.
- A minimum of 5 years' post-graduate experience and a degree in a computer-related discipline or equivalent computer-related technical experience is required.
- Ability to work to pressurised deadlines while demonstrating a track record for innovation and creativity.

Technical Skills:

- VHDL and/or Verilog with demonstrated experience in designing and developing digital signal processing algorithms on FPGAs
- Xilinx FPGA tools experience
- MATLAB based (or similar) algorithm development
- Python or C/C++ Software development experience

Interpersonal Skills:

- Ability to write and converse clearly, concisely and confidently on technical problems, solutions and workarounds
- Demonstrable team working and communications skills
- A track record of on time delivery of quality software
- Quick learner with a proactive work attitude

The following are desirable but not essential:

- Design experience of High Speed communication interfaces
- Knowledge of optoelectronics components and sub-systems.
- Experience of Agile development processes
- Record of submitting ideas for patent protection

FAZ Technology Ltd. offers exciting work that is challenging and rewarding. This position will provide you with the opportunity to make a difference with your own ideas and see your work deliver real results. Throughout FAZ Technology Ltd. we firmly insist on excellence and innovation, we do what is right, we value individuals and we make things happen.