

Job Opportunity

FPGA Design Engineer

Location Dorset Innovation Park, Winfrith

Employment status Permanent, 37 hours per week

ATLAS ELEKTRONIK UK develop, supply and support cutting-edge maritime technology for customers worldwide. Based in Winfrith, Dorset, they work closely with the UK Royal Navy and global customers to create products which protect lives at sea.

Due to the growth of our business we are seeking an FPGA Design Engineer to join our Sonar Electronics team. The successful candidate will be supporting the delivery of bespoke electronics for integration into complex Sonar Systems, with a significant focus on high bandwidth telemetry systems. This includes the implementation of various high speed serial communication protocols, such as Gigabit Ethernet as well as data conversion and digital signal processing techniques.

The successful candidate will be enthusiastic, innovative and versatile and be able to work collaboratively as a Sonar Electronics team member and also alongside engineers in other disciplines and departments across AEUK. Additionally the successful candidate will:

- Translate customer requirements into a firmware specification.
- Create feasible preliminary architectures from the firmware specifications.
- Carry out detailed implementation of RTL, constrained Place and Route and timing closure.
- Derive verification plans to address design requirements.
- Prepare related test cases to verify that the implemented design meets the requirements.
- Design and utilise both unit level and BFM style verification test benches to exercise RTL.
- Produce accurate written documentation to fully support the design.

This is an excellent opportunity for a dynamic FPGA Design Engineer who wants to improve and challenge their technical capabilities to develop cutting edge technologies for a world-leading organisation.

The role is based at the AEUK offices in Winfrith, Dorset, offers a significant benefit package and will require SC Clearance.

Qualifications:

- B.Sc. (Hons) in Electrical/Electronic Engineering or equivalent subject.

Core Competencies:

- Experience of a Hardware Description Language (preferably VHDL)
- Experience in the use of a simulation tool e.g. ModelSim, Active-HDL,
- Experience in the use of Vendor design tools such as Xilinx Vivado or Altera Quartus Prime

Experience of one or more of the following:

- Design and delivery of digital systems targeted at Programmable Logic Devices
- IP Block design and Delivery
- FPGA Verification using Self-Checking Testbenches
- Use of a synthesis tool preferably (preferably Vivado)
- Developing robust timing constraints and timing analysis (preferably SDC/XDC)
- Scripting FPGA design, synthesis, simulation & test tools using TCL, PERL, PYTHON
- Multiple clock domain designs and domain crossing techniques
- Producing high quality behavioural models
- Matlab
- Software programming language
- Implementing DSP within an FPGA
- Programmable SoC families such as Xilinx's Zynq

Atlas Elektronik UK are a subsidiary of Atlas Elektronik GmbH in Bremen and are marine specialists providing extensive experience in programme management, design and development, qualification, field tests, supply management and system integration.

... a sound decision

How to apply

Please forward your CV and a covering letter explaining why you are suitable for the post to Recruitment@uk.atlas-elektronik.com by the closing date and state the job title in the subject line.

Due to the nature of our work and the projects you will be working on, all candidates must be eligible to gain security clearance. ATLAS ELEKTRONIK UK Ltd is an Equal Opportunities employer and welcomes applications for all posts from suitably qualified people regardless of age, disability, ethnicity, gender, marital status, sexual orientation, religion or belief.

Only successful applicants will be contacted.

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