FPGA Engineer

OPPORTUNITY

Ainira Industries is currently seeking applicants for Field Gate Programmable Array (FPGA) Engineer position, in Melbourne, Australia.

JOB DESCRIPTION

Position reports to the Director of Electrical Engineering and works as part of a team a talented engineers and technicians to bring new products and major product improvements to market.

Working with other divisions within the Company to develop the requirements and specifications that will drive our products forward.

RESPONSIBILITIES

- Thorough understanding of VHDL, the FPGA design process and the tools used to generate the FPGA designs

- Design experience with Xilinx ISE and Vivado tool chains

- Experience with multiple Xilinx family members Spartan 3, Spartan 6, Virtex, Artix-7 , Kintex-7, and thorough understand board level interface of these devices

- Ability to convert data sheet wave form requirements into low-level VHDL device drivers

- Multi-clock domain design

- DCM, DLL, PLL set up and global clock distribution

- Asynchronous and synchronous (SDR and DDR) design

- High-speed clocking and interface, on and off die experience and understanding when to use various IO standards

- Multi-voltage interface design and protection

- Ability to understand and modify code written by other team members, and manage contributions and revisions

- Understand the requirements, architect a solution targeting an FPGA against those requirements and implement that solution in an FPGA

- Lead a small team of designers in generating the FPGA design solutions

- Simulate the FPGA to verify performance, then integrate and test the FPGA on the circuit card assembly

- Implement behavioural and/or synthesizable functionally specific test code

- Full life cycle development and integration of VHDL into different families of FPGAs

SKILLS and QUALIFICATIONS

- 5+ years' industry experience with VHDL and FPGA design and development

- Demonstrated success in product development of embedded systems, from concept definition to architecting to design and verification and validation

- Experience with development of consumer electronics

- Excellent written and verbal communication skills

- Proficient in use of Microsoft Office products

- BSc in Electronics Engineering, Electrical Engineering, or Computer Engineering

COMPENSATION

The Company offers a competitive compensation and benefits package.

APPLY

Click "Apply" below or use form in the Contact section – quote the reference number HR-ENG-0033. Only the shortlisted candidates will be contacted. Thank you for your interest.