



JOB DESCRIPTION

Job Title	Senior Electronics Engineer
Department	Product Design
Reports to (function)	Lead Electronics Engineer
Location	Forth Dimension Displays Ltd, Dalgety Bay

Job Purpose

The job holder is responsible for electronics hardware design and development effort within the Product Design team. The focus of the role will be on the development of electronics for new and existing SLM based products while providing general technical advice and support when required.

The technical focus of the role will be on FPGA design and high speed digital electronics design.

The job holder will be involved with the development of product requirements and will be responsible for the delivery of the electronics hardware parts of products.

The job holder will report to the Lead Electronics Engineer.

Key Responsibilities

- To be involved on the technical issues of the design and development of electronic hardware for ForthDD products.
- The design and development of high-speed electronic circuits and FPGA designs. This includes the debug and verification of prototype units.
- The creation and maintenance of design documentation (requirement specifications, design descriptions, PCB layout requirements, test procedures, etc.)
- Design for cost and manufacturability.
- To assist with the establishment of effective hardware development practices and to help with the training of subordinate engineers to make best use of these practices.

- The provision of advice and direction on the selection, maintenance and use of hardware design tools
- To ensure that safe working practices are adhered to in accordance with the Staff Handbook.
- Any other duties as may be deemed appropriate by the Line Manager.

Working Relationships

Applications Engineering
Production
Sales and Marketing

Responsible For

Advice and help to colleagues in areas of specialist technical knowledge and the support of other electronics engineers.

Core Aptitudes

The employee will be an experienced electronics engineer with a background in design and development. The employee will have experience of the following:

- HDL coding (VHDL/Verilog/System Verilog) of FPGA or ASIC designs
- High speed digital design
- Schematic design and capture and design processes
- Testing and debug of prototype designs
- Technical documentation

Supplementary Aptitudes

Experience of one or more of the following would be beneficial:

- PCB design
- Video/graphics interfacing (HDMI/DisplayPort/SDI etc.)
- Mixed Analogue/Digital circuit design
- Liaising with sub-contractors, or supplier representatives
- Working with mechanical, software, or optical engineers
- Coaching/mentoring skills

General

Good problem-solving skills and ingenuity
Resourcefulness, creativity and inventiveness
Ability to meet deadlines and work under pressure

FDD1 Senior EE

Good communicator.
Self-motivated.
Good interpersonal skills
Strong team player

General

Hours of work: 39-hour week, Monday to Friday, 8.30- 5.00 with 30 min for lunch; the company offers certain flexibility/change of the core working hours in the line with the FDD Flexible Working Policy, however, flexibility regarding working hours is also expected from the employee.

Location:

The role is based in the Company's facility in St. David's Business Park, Dalgety Bay, Fife but flexibility around a combination of on- and off-site working (working from home) is supported; a small amount of travel may be required;

Benefits package: 30 days annual leave (plus 5 statutory days), competitive personal pension scheme with company contribution, life assurance scheme.

The right candidate can expect a salary commensurate with experience and consistent with the current market rates.

Company Info

Forth Dimension Displays (ForthDD) (www.forthdd.com) is a world leading supplier of high resolution Microdisplays / Spatial Light Modulators (SLMs) for applications such as Near-To-Eye viewers and Structured Light Projections.

ForthDD's High Definition microdisplay solutions are built on a Ferroelectric Liquid Crystal-On-Silicon (FLCOS) architecture using proprietary Time Domain Imaging (TDI™) technology. Optimized for performance, its fast-switching liquid crystal, combined with proprietary electronics and software, enables ForthDD's microdisplays to process images in microseconds, delivering the highest image quality, free from analogue artefacts.

The company is a wholly owned subsidiary of a US publicly traded corporation: Kopin Corporation (NASDAQ: KOPN).