

Job Title:        Electronic design engineer

Reporting to:    R&D Manager

### Introduction

PSEL is a fast-growing specialist imaging equipment manufacturer based in East Sussex. The company has 22 employees and is part of the Tibidabo Scientific Industries group of companies. The growth of the company has created the need to hire an electronic design engineer to add to the team.

### Background

The company develops and manufactures a wide range of camera products, including a range of x-ray cameras. An Electronic Design Engineer is required to work in a small team designing professional digital cameras and imaging systems for scientific and surveillance markets, based in St Leonards, East Sussex .

### Role

The role involves:

- Designing hardware and FPGA firmware to meet functional and performance specifications
- Produce PCB drawings and designs for use in PCB Manufacturing and production
- Ensure compatibility between mechanical, electronic and software design is achieved.
- Write code for embedded firmware (VHDL/schematic, and C)
- Building and debugging prototypes
- Adding firmware features to existing FPGA designs
- Working with colleagues to ensure the final product meets functional, performance, quality and timescale requirements
- Supporting the manufacturing facility in resolving design-related production problems
- Supporting the test process and create test electronics when necessary

### Skills required

Specific skills required include:

- Degree/HNC/HND (or equivalent) in electrical/electronic/engineering discipline or
- Equivalent significant Industrial experience in the above
- FPGA firmware design (preferably Altera, VHDL)
- Coding in C for embedded hard and soft microprocessors



- Ability to understand device data sheets (typically image sensors and complex ICs) and design hardware and firmware to use them
- Hardware circuit design, schematic capture and PCB layout (preferably Altium Designer)
- The ability to fault-find electronic assemblies
- Flexibility and adaptability
- Ability to learn
- Initiative, resourcefulness, and practicality
- A hands-on, problem-solving attitude
- In conjunction with colleagues, the ability to take a product through from initial concept to delivery to customer
- Supporting the sales team through pre- and aftersales support

The ideal candidate will ideally have a minimum of 3 years' experience in a related field, and will value the autonomy and responsibility of working in a small multidisciplinary team to develop new high value professional products being sold around the world.