



Electronics Engineer

ProPhotonix Limited, Hatfield Broad Oak, Hertfordshire, U.K.

The Company:

ProPhotonix is an expert designer and manufacturer of laser and LED systems for OEMs (Original Equipment Manufacturers) across a wide range of applications including machine vision, UV curing, medical equipment, and security applications.

Established in 1951, ProPhotonix is headquartered in Salem, New Hampshire, USA, and has ISO-certified production facilities in Cork, Ireland, and Essex, U.K. At our Cork facility, we design and manufacture LED lighting for a diverse range of applications. At our UK facility, we design and manufacture diode laser modules and systems for applications including inspection, sorting, patient alignment, and industrial. We are an SME looking to grow market share in our key markets.

The Role:

An exciting opportunity has arisen to add an Electronics Engineer to our team.

The Electronics Engineer will report to our experienced Technical Manager and will work alongside our Senior Electronics Engineer.

The successful candidate would be expected to cover the design, layout, test, build, modification of existing and new design laser module driver boards that range from the simple board no bigger than 10mm diameter to larger more complex digital type design, with a variety in between.

The areas of responsibility include but are not limited to;

- Development of electronic concepts and designs for laser module products through a combination of modelling and practical testing.
- Prototyping, testing and validation of concepts and products, creating appropriate documentation of results and build process.
- Support customer related electronic enquiries.
- To have a hands-on practical approach, where appropriate, to the design and test process of products.
- Liaison with customers, suppliers and production activities.
- Providing technical support to sales, marketing and production.
- Being capable of communicating electronic designs and constraints to other team members.
- Adherence to documentation control procedures to satisfy ISO9001 requirements.

The required skills for the role are;

- Digital and Analogue electronics
- Altium PCB layout experience
- Adherence to ECN processes.



- Ability to work in a practical manner.
- Fault finding to component level.
- Prototyping (soldering, wiring, building etc)
- Ability to work on a fundamental task, but willing and able to divert as other customer demands dictate. (at short notice) and have more than one project/task running at the same time.
- Ability to fault find customer returns and put in place remedial actions to prevent re-occurrence.
- Ability to get involved with production related problems and remedy.
- Build of test jigs etc. including the documentation required.
- Documentation – drawings for PCB's, test boxes etc (mechanical and electrical/electronic) specifications etc, test reports etc.

Desirable skills for the role;

- Embedded coding
- PC application-based coding
- Optical experience to component level. (lens selection, use of optical measurement equipment)