Job Description

Job Title: Electronics Engineer
Department: Design and Development
Reports to: Engineering Manager

SUMMARY
The Electronics Engineer will design hardware and firmware for lighting systems based on LED technology, used mainly in military environments (land, sea or air). Design work on other electronic components may also be undertaken.

DUTIES AND RESPONSIBILITIES
Primarily working on hardware design but may also work on firmware/software or work with dedicated software engineers. Involved in new design projects as well as support to existing production and other areas of the company.

Carries out detailed electronic circuit design, including simulation and design verification testing of the new design.

Carries out PCB layout of designs using Altium Designer software.

Selects new parts, taking into consideration obsolescence, availability and cost.

Create designs which involve electronic control of the electrical, optical and thermal performance of LED lighting systems.

Prepares and presents electronic designs to other members of the design team and project stakeholders at design reviews.

Documents design work and prepares reports, ensuring design files and information are kept up to date and stored in accordance with company procedures.

Follows departmental processes relating to management of designs, and the design and project management processes.

The Electronics Engineer will also support the Engineering Manager in recording and reporting design progress into the project and management teams.

Effective Date: 01.01.04
Review Date: February 2004
Attends training as required, develop skills and knowledge keeping up to date with latest technology.

QUALIFICATIONS
Degree in Electronic Engineering or similar subject.

EXPERIENCE
At least 5 years Hardware design experience within a relevant industry. A broad range of experience but ideally with strong all round electronic design and software/firmware skills
Strong knowledge of Analogue and Digital Design including microprocessors/microcontrollers, programmable logic, embedded firmware/software, SMPS design, PCB design and design for EMC, Schematic capture, PCB and simulation using Altium designer or similar

ADDITIONAL SKILLS
Firmware development in C
Some knowledge of design for Military/Avionics applications including EMI/EMC specifications
Skilled in the use of Microsoft Word, Excel, PowerPoint and Outlook
Excellent Analytical and Problem Solving skills
Excellent communication skills
Excellent written and presentation skills

PERSONAL ATTRIBUTES
Self-driven with a positive outlook, able to work equally well as an individual or as part of a team. Good communicator, well presented and business-like. Sufficiently mobile and flexible to travel. Keen for new experience, responsibility, to develop new skills and expand knowledge base.

WORK ENVIRONMENT
The role will be primarily Office based with occasional travel as required.