

Chris Ringwood

Product Design Engineer

Key skills

SolidWorks modelling
Keyshot final rendering
Prototyping
Product design & revisions
Manufacturing data
RELUX light simulation
Sage manufacturing
Supplier management
Far east manufacturing
PCB design
Cable loom design
Product manuals & guides

Extended skills

Electronic testing
Product testing
Quality assurance
Lighting controls
Overseeing production
Lighting projects

Personal attributes

Dedicated and caring
Creative thinker
Open to advice and criticism
Well liked team player
Independent and resourceful
Patient listener
It's possible attitude
Decisive and honest

Profile

Product Design Engineer with experience of product development, manufacturing and a range of related operations.

Being the sole Product Design Engineer in a small company has offered challenge and a particularly broad range of responsibility. I integrate well

within the team environment, work closely with electronics and software engineers internally and with suppliers (both UK and far east).

I am looking for an opportunity to further develop my specialist design skills whilst also testing my broad range of experience in a new context.

Work experience

Integrated System Technologies Ltd. • Sutton Coldfield
Product Design Engineer • Jul 2013 to Present

Highlights

Developed successful products including LED drivers and luminaires on time and to budget.

Worked with customers to analyse technical issues and managed the timely resolution of these, ensuring a continued good reputation.

Improved manufacturability and quality of LED luminaires by introduction of new connectors and improved LED technology.

Introduction of 3D printing facility. Printed test jigs for DALI drivers allowed production to perform batch programming safer and around 5x faster.

Duties & Responsibilities

- Responsible for all mechanical, loom and LED based product design.
- Design and revision of products to the latest standards.
- Design initiation and concept design through to customer application.
- Cost downs, efficiency increases and reduced wastage.
- Obtaining initial quotes and setup of drawings with suppliers.
- Handover to production with assembly guides, QC process and testing process.
- Creation and version control of models, drawings and assets.
- Management of the supply chain including manufacturers, suppliers and far east manufacturing.
- Design of LED printed circuits, output of Gerbers and arranging production.
- Research into new technologies, opportunities and standards.
- Specification of LED components and associated components.
- Working with manufacturers to ensure design suits their process.
- Resolution of quality or manufacturing concerns both internally and externally.
- Using Sage software to setup parts, BOMs, operations and costs.
- Overseeing internal production and training of staff.
- Key route via which all design output including electronic design and software reaches manufacturing.
- Technical support and procurement.
- Design of marketing media and user documentation.
- Meeting with clients, contractors and customers to discuss opportunities and project requirements.
- Design of project schematics including wiring and control system.
- Supporting sales with the specification of LED luminaires, drivers and controls.
- Production of samples, prototypes and test setups.
- Continued development of quality assurance processes and embedding within the manufacturing process.
- Product testing and verification (functional, thermal and electrical).
- Creation and organisation of technical files for CE requirements.
- Support and setup of DALI, DMX, Art-Net and sACN control systems.

Unipol Student Homes • Leeds

Publication Designer • Sep 2011 to Jul 2013

Highlights

Key designer of the regular housing tabloid which went out for print and delivery to all key student areas.

Had sole responsibility for publication activities including design, print and video production during managers paternity leave.

Duties & Responsibilities

- Design of information leaflets and booklets for print.
 - Designing signs for installation at housing sites including maps and building information.
 - Filming footage for promotional and information videos. Capturing of audio voice overs.
- Video production including preparation of footage, green screen, graphics and annotation.
 - Working with landlords to develop property adverts for publication.
 - Overseeing the progress of designs sent out for print ensuring these were delivered on time.

Production of all promotional and information videos during my time of employment.

Developed new techniques, styles and standards for all video work which prior to my employment hadn't been attempted.

University of Leeds • Leeds

Teaching Space Technician • Feb 2008 to Sep 2010

Highlights

Developed specifications & diagrams for campus wide refurbishment of AV installations in lecture theatres. Led to one of the most trouble free installations to that date.

Introduced more control over supplies and minimum stock

levels of consumables. This solved an ongoing problem of stock running out.

Designed and introduced a new system to audio record lectures in teaching rooms. Provided training and a symposium presentation on how to use the system.

Leeds Metropolitan University • Leeds

Media Assistant • Nov 2003 to Feb 2008

Syfer Technology Ltd. • Norwich

Engineering Assistant • Oct 1999 to Jul 2003

Education

Leeds Metropolitan University

BA(Hons) Product Design - 1st Class • Sep 2010 to Jul 2013

Highlights

Winner of the Robert Peake award for academic excellence - received the award at graduation.

Written studies regarding design for the five senses and lighting for health and wellbeing achieved excellent grades and taught me a great deal.

Engaged in a diverse range of projects ranging from more visual driven design to human centric design and technological design.

Presented design work to Leeds City Council in response to the Child Friendly Cities initiative. This made local press and was very well received.

Philips Lightolier (American Institute of Architects (AIA) registered)

Lessons in Lighting (OLIL24) & Lessons in Lighting LED (LOL3SD) • Jul 2012 (online)

Park Lane College

Advanced Certificate - Personal Effectiveness at Work • 2004 - 2005 (online)

City College Norwich

City & Guilds - Electronics Servicing • Sep 1997 - Jun 1999

Interests

Car repair and maintenance - Learnt a lot about the operation and design of car engineering.

Gardening - Patience, care and dedication is required. Research is also important to success.

Running - Dedicated to improving my time and fitness.

Design and drawing - I enjoy drawing and also designing various objects both functional and aesthetic for home.