

Jason Simons

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MECHANICAL ENGINEER • DESIGN ENGINEER • INDUSTRIAL DESIGN

Broadly skilled Mechanical Engineer with over nine years commercial experience including five years industrial exposure, providing product design solutions for a broad range of international markets. Recognised as a key contributor to product development for commercialisation, offering design modification and solutions to improve quality, reduce cost and improve overall production techniques.

- Mechanical Design Engineering
- Finite Element Analysis
- Lean Methodologies
- Design for Assembly
- Project Management
- 3D CAD and design tools
- Research and Development
- Six Sigma Green Belt
- Prototyping & Testing
- Industrial design
- Computational Fluid Dynamics
- Production Engineering
- Continuous Improvement
- Drawing standards compliance
- Test procedures

PROFESSIONAL EXPERIENCE

Globe Lighting Engineering Plc

August 2007 to current

Headquartered in the UK with operating locations in the UK, USA, Germany and Mexico, Production Engineering is a leading lighting manufacturer with over 1000 employees worldwide.

MECHANICAL DESIGN ENGINEER

Reporting to the Engineering Manager and supporting the Production Engineering Department, the position of Mechanical Design Engineer holds responsibility for the design and development of white lighting products which are used in both explosive and industrial applications.

- Design and development of products; working from initial evaluation of theoretical designs through to development stage, prototyping, testing and then release the product to various Globe Light sites around the world.
- Perform calculations and CFD analysis to ensure that the enclosure will operate thermally within specifications prior to ordering prototypes or tooling.
- Liaison with external suppliers to specify components correctly and gain appropriate samples and prototypes.
- Produce details of specifications and outline designs and modifications following prototype test results.
- Modification of product to ensure viability across pan-European and US markets
- Compliance to drawing standards BS8888:2008, Hazardous Lighting IEC 60079 (whole World excluding US) & NEC 505 (US).

Dawson Manufacturing

2004 to 2006

Dawson Manufacturing is a designer and manufacture of catering equipment suitable for a wide range of organisations, including hotels, restaurants, hospitals, sporting arenas and educational establishments.

RESEARCH & DEVELOPMENT MANAGER

Reported to the Design Manager with responsibility for the design and develop new products, and to improve current products and test and develop new technologies working from pre-production through to build and alteration.

- Managed design process from project brief through to the production ready product including building prototypes and performing testing and analysis to ensure the product meets or exceeds specifications
- Performed design calculations including Second Moment of Inertia, managed Bill of Materials generation and amendments as necessary on ERP system.
- Produced prototype models for use in exhibitions and events including a major Catering Show in London.
- Improved specifications over previous models resulting in substantial improvements of the material cost and 50% of the previous assembly time.