

David Stephenson

28 Lancashire Street, St Albans, VIC 3021
Telephone: 0405 555 123 or email: david-stephenson1@gmail.com.au

◆ PROJECT ENGINEER ◆ DESIGN & ENGINEERING ◆

“Award winning” mechanical engineer with over 9+ years commercial experience and a proven track record in delivering complex design solutions for industrial based lighting and electrical production equipment. Expert in the development of products for commercialization, offering design modification and solutions that improve quality, reduce cost and can be integrated effectively into overall production techniques. Robust compliance management (ISO) has underpinned an excellence in product supply techniques.

- Mechanical Design Engineering
- Finite Element Analysis
- Lean Methodologies
- Design for Assembly
- 3D CAD and Design Tools
- Research and Development
- Six Sigma Green Belt
- Prototyping and Testing
- Electrical and Lighting
- Production Engineering
- Continuous Improvement
- Drawing Standards Compliance

SELECTED ACCOMPLISHMENTS

- ❖ Received the “Innovation Award” at the SAI (Standards Australia) ISO Annual Conference following the successful design and go-to-market of a new energy-saving panel light fixture which can be used in heavy industrial sites.
- ❖ Featured in “Electronics Monthly” for improvements to engineering standards.
- ❖ Challenged with developing one of the first viable Blue Panel Lighting systems for rollout in Australia.
- ❖ Successfully held the position of R&D Engineer for a leading electrical equipment manufacturer, gaining firsthand experience in the “Design for Assembly” philosophy.
- ❖ Awarded by BHP Global Electrical for “Engineering Excellence” in Design.
- ❖ Completed a 12 month Graduate Development program for KZ International, gaining exposure to Lean methodologies and achieving Six Sigma Green Belt accreditation.

PROFESSIONAL EXPERIENCE

BHP Global Electrical

Sept 2005 to current

BHP Global Electrical is an ASX (Australian Stock Exchange) Fortune 100 company which has operations across Asia Pacific, US and Europe and employs over 22,400 staff worldwide.

SENIOR MECHANICAL DESIGN ENGINEER

Leading a team of 5 skilled Panel Engineers, with full responsibility for the design and development of white panel lighting products which are used in both commercial and industrial application, and for managing the process from prototype through to design and production stage.

- Designed and developed one of the first viable high-power panel street lights which can dissipate 200W of heat in a 50°C ambient through the use of natural convection only.
- Achieved ISO certification following a complete overhaul of the design process being used across the plant, rationalised and enhanced each stage of the design process, introducing better standards for prototype and aligning design methods with comparable benchmarks across the industry
- Brought to market a \$100m contract that supported a Joint Venture for BHP Global and Texaco for the supply of complex lighting equipment, and which can be used in hazardous locations such as oil drilling.
- Generated PR through ground-breaking product design with regular articles appearing in key electrical journals.
- Designed and developed through to production, retrofit PANEL down lights which fit standard / common houses and offices and netted the business over \$1.2 million during the first two years of production.



PROFESSIONAL EXPERIENCE

KZ International Manufacturing

Jan 2001 to Sept 2005

KZ is a designer and manufacture of high-end electrical equipment and cabling which are used in civil construction projects and are focused around ICT cabling and data structures..

RESEARCH & DEVELOPMENT MANAGER, 2002 to 2005

Joined KZ on their Graduate Development Program before being assigned to the position of Research and Development Manager with responsibility for the design and development of new products, to improve current products and to work on new technologies from pre-production through to build and alteration.

- Designed and developed first-line of product range to utilize the "Design for Assembly" philosophy, thus resulting in substantial improvements of the material cost and 50% of the previous assembly time.
- Produced prototype models for use in exhibitions and events across Australia, US and UK.
- Championed best practice for production techniques including: Lean, Kaizen, JIT, SPC, FMEA, and pioneered the introduction of Six Sigma into design through to production.
- Brought KZ into a new competitive era, leading the search and selection for the transition of the design process from 2D to 3D CAD; a move which dramatically improved the business' design capability and resulted in the successful completion of multiple projects ahead of initial budgets.
- Created a computer application for quantifying production processes whilst eliminating repetitive computations.
- Enhanced relations across Production and Design resulting in key knowledge sharing and much improved communication flow between the departments.

GRADUATE DEVELOPMENT, 2001

- Completed a 12 month Graduate Development program for KZ International, gaining exposure to Lean methodologies and achieving Six Sigma Green Belt accreditation.

ADDITIONAL SUPPORTING INFORMATION

Professional Membership

- Member of Australian Inst for Engineering and Technology
- Member of Design Council Australia

Qualifications & Certifications:

- Masters in Engineering Design & Manufacture - University of NSW, 2009
- Six Sigma Green Belt Certified
- Bachelor of Engineering B.Eng.(Hons.) - Weston University, 2003

IT Technical

- ProDesign (AutoCAD), InDesign, Adobe CS4, Access (dBase), Linx ERP

Recommendations:

"I have found Simon to be of excellent character and a true innovator with a real passion of creative design within an industrial setting. Simon's contributions have included the design and development of complex PANEL lighting for commercialization and has resulted in BHP Global winning several key contracts. I am delighted to recommend Simon for any position that will offer him future challenges" - Mr J Wilson, Production Director at BHP Global Electrical

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