

## CAREER PROFILE

Consultant Chartered Engineer with broad-ranging experience of electrical engineering as well as data, audio, controls gained largely in the events and entertainment sector. Extensive knowledge of electrical safety principles and relevant legislation, including temporary power infrastructure. Considerable experience of developing UK and international Standards and guidance. Published author and UK expert on temporary electrical systems.

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## SKILL BASE

- Excellent interpersonal and communication skills. Experienced in presenting, developing and delivering training as well as writing and promoting electrical safety management documents, guides and educational qualifications.
- Excellent knowledge of electrical safety management, standards and legislative compliance, design and implementation, in both permanent and temporary fields.
- Detailed knowledge of electrical product safety, EU Directives, Standards and related legislation.
- Considerable project, event and general management experience gained in both temporary and permanent environments with proven record of bringing commercial projects to completion within agreed timescales and budgets.
- Ability to constructively build and manage teams and a good team player.
- Wide knowledge and understanding of the broad spectrum of AV technology, data and control systems.

## EMPLOYMENT HISTORY

### **2005 – date. Director, own consultancy, E-Mech Entertainment Engineering Ltd**

- Head of Energy for the Birmingham 2022 Commonwealth Games; responsible for 26 venues and £14M budget.
- Electrical consultant to industry trade associations including the Association of British Theatre Technicians, the Professional Lighting and Sound Association and the Institution of Engineering and Technology (IET) technical regulations department.
- Electrical consultant for a range of notable companies including SKY, ITV, CNN, Ambassador Theatre Group, Lloyd Webber Theatres, Aggreko and more.
- Engaged as the electrical authority for the BBC since 2016.
- Chairman and contributor to the IET committee responsible for the IET *Code of Practice for Connected Systems Integration in Buildings* (ISBN: 978-1-84919-953-7).
- UK authority on temporary power systems and UK expert on the international IEC committee TC 64.
- Member of the Electrotechnical Assessment Scheme Management Committee, the Government instigated panel that oversees electrical regulation, skills and requirements and competent person schemes in the UK. Chairman of the sub-committee on entertainment and events.
- Creation and implementation of corporate electrical safety management policies and risk assessments for a range of SMEs and multinationals.
- Over 100 published articles and features on various electrotechnical issues in trade press, including *Lighting and Sound International* and the IET *Wiring Matters* journal.
- Formative Technical Editor of *Lighting & Sound International* magazine and Chairman of the PLASA Industry Innovation Awards (since July 2001).
- Formerly consultant and project manager for AV systems for Abercrombie and Fitch, Hollister, American Eagle and Gilly Hicks in Europe.
- Responsible for initiating and developing industry electrical safety training, enforced by industry. I have trained a wide cross section of industry in electrical safety, ranging from construction and events companies to local authorities. I also provide training on temporary power for the specialist electrical inspectorate of the Health and Safety Executive.

## PUBLICATIONS

### **By the Institution of Engineering Technology (IET) (Formerly the Institute of Electrical Engineers (IEE))**

- *Temporary Power Systems: A guide to the application of BS7671 and BS7909 for temporary events* (ISBN: 978-1-84919-723-6)
- *The IET Practitioner's Guide to temporary power* (ISBN: 978-1-78561-432-3)
- *The IET Code of Practice for In-Service Inspection and Testing of Electrical Equipment* (ISBN: 978-1-84919-626-0) (more commonly seen as the UK 'PAT testing' code.)

### **By ET Press**

- *The DMX 512-A Handbook* (ISBN: 978-1-90403-172-7)
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## STANDARDS REPRESENTATION

### **Chairman of BSI committee CPW/4 *British standards for imaging***

Significant contributor to the editing committee responsible for drafting BS 7909 *Code of practice for temporary electrical systems for entertainment and related purposes*, the most active standard administered by CPW/4.

### **Member of JPEL/064 *Electrical installations of buildings***

Joint BSI/IET committee responsible for the IET Wiring Regulations (BS 7671). Active on both the main committee and sub-committees A (Verification) and D (External influences and special locations).

### **Member of GEL/600**

This committee administers BS 7430: *Code of practice for protective earthing of electrical installations*

### **Other BSI committee memberships**

EPL/100 *Audio, video and multimedia systems and equipment*; GEL/210/12 *EMC basic, generic and low frequency phenomena Standardization*

### **International Electrotechnical Commission committee TC 64; Maintenance Teams 3 and 9.**

UK expert for generators and related issues on this maintenance team which deals with protection against electric shock, in particular Chapter 41 of IEC 60364 and Chapters 54, 55 and Part 7.

### **US ANSI Standards (via the ESTA TSP)**

Representing the ABTT: Observer/papers member on the Control Protocols WG, Observer/papers member on the Electrical Power working group.

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## EDUCATIONAL DETAILS

**1991 - 1994** Coventry University. Honours degree in Mechanical Engineering

**Other** Chartered Engineer (Engineering Council Registration # 521844)

**Cardiff University/Bond Solon** Report writing, criminal law and procedures, cross examination

## MEMBERSHIPS

Member of the Institution of Engineering Technology (The IET)

Associate Member of the Association of Lighting Designers

Member of the Association of British Theatre Technicians

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