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### Expert/Specialist Field

A world expert in the operation and design of electrical fuses, circuit breakers and other electrical fault protection systems, specialising in how these devices operate in domestic and industrial systems with relevance to the faults generated by domestic appliances and industrial equipment.

Also an expert in the design and operation of electrical and electronic control systems for domestic and industrial environments including cable wiring, electrical current switching, electrical power generation and utilisation, automatic (computer) control of domestic and industrial process.

### Career History

**Professional Expert Witness and Consulting Engineer – Fraser George and Associates Limited** **2018 Present** -

An expert witness and consulting engineer in the fields of electrical, electronic and control engineering. A renowned expert in the operation and design of electrical fuses, circuit breakers and other electrical fault protection systems, specialising in how these devices operate in domestic and industrial systems with relevance to the faults generated by domestic appliances and industrial equipment.

Expertise also includes the design and operation of electrical and electronic control systems for domestic and industrial environments including cable wiring, electrical current switching, electrical power generation and utilisation, automatic (computer) control of domestic and industrial process, sensory and sensor systems including parameter data capture and accurate data 'representation'.

Provided expert and legal representation, acting as a single joint expert in numerous cases, having also acted as an expert working directly with private individuals, solicitors, barristers and other legal professionals. He has extensive court experience ranging from International Courts to County Courts.

Media experience having appeared on national television for the BBC, giving advice and evidence for the consumer protection series of programs 'Don't get done get DOM' and X-ray, BBC Wales version of 'the popular primetime BBC program 'Watchdog'.

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**Bralsford Brown and Associates** **2011 – to 2018**

Bralsford Brown and Associates Limited, as a company providing a source of expert witnesses who can offer expert guidance, support and assistance to the legal profession in the fields of plumbing and heating, electrical, electronic and mechanical engineering fields.

- Established the company with senior partner Russell Bralsford, a licentiate master plumber and heating engineer. Specialist in the field of electrical, electronic and control engineering in domestic and industrial domains

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**SensSystems Limited, Sheffield South Yorkshire. S60 5WG** **2007 – 2013**

A research and consulting organisation investigating, designing and constructing innovative electrical, electronic and process control solutions for domestic and industrial applications.

### Technical Director

- Established the company to provide support to clients involved in domestic, continuous process and batch production environments, designing electrical and electronic systems, to improve domestic and industrial environments, product flow and manufacture.

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**C.B. Kaymich and Co Limited, Sheffield.**

**2006 – 2007**

A company supplying integrated components to the tobacco sector.

### Principal Electrical/Electronic Engineer

- Responsible for devising, creating, implementing and installing electrical /electronic control solutions.

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**Sarclad Limited, Chesterfield, Derbyshire.**

**2005 - 2006**

A manufacturer of heavy industrial monitoring instruments for the steel industry selling to a global market

### Research and Development Engineer

- Responsible for research, development, testing and commissioning of electrical/ electronic control elements, associated with large monitoring equipment used within the steel industry

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**Monition Limited, Worksop, Nottinghamshire. S80 3EH**

**2000 - 2005**

A specialist engineering consultancy supporting domestic and manufacturing industry by monitoring, analysing and increasing the energy efficiency of domestic environments and industrial production performance by the addition of new electrical/ electronic control systems

### Research and Development Manager

- Fully responsible for the companies research and development function and head of collaborative national and international projects.

### Early Career

**Tata Steels (Formally British Steel Corporation), Rotherham.**

**1979 – 1993**

- Electrical/Process Control Maintenance Engineer

### Professional Qualifications

<b>Ph.D.</b>	Electrical Engineering - Sheffield Hallam University Thesis title: Investigations into Disintegration and Arcing in Electric Fuses.
<b>BEng (Hons)</b>	Electronic Systems and Control Engineering. – 1 <sup>st</sup> Class Honours Sheffield Hallam University.
<b>City Guilds and</b>	2382 – 17 <sup>th</sup> Edition IET Wiring Regulations
<b>City Guilds and</b>	2394 – Initial Verification and Certification of Electrical Systems
<b>City Guilds and</b>	2395 – Periodic Inspection, Testing and Certification of Electrical Systems
<b>CEng</b>	Chartered Electrical Engineer - UK Engineering Council
<b>Eur Ing</b>	European Engineer – FEANI - European Federation of National Engineering Associations
<b>IntPE(UK)</b>	International Professional Engineer - UK Engineering Council Register

<b>MIET</b>	Member - Institution of Engineering Technology
<b>MSEW</b>	Member - Society of Expert Witnesses

### Television appearances

“Don’t Get Done get Dom”, Episode, “Atlantic Electric”, Flame Television for BBC 1, first shown Thursday 8<sup>th</sup> May 2014

“X Ray”, BBC Wales, Episode, “First Utility – Electrical meter error reading” first shown October 2017

### Publications

<b>Unduloid Formation and the Causation of Current Interruption in Current Carrying Wires.</b> - International Conference on Electrical Fuses and Their Applications - Turin, Italy, Sept. 1999	9/1999
<b>An Opto-electronic Camera for Non-invasive Investigation of Arcing in Short-circuit Current-carrying Conductors and HBC Fuse Elements.</b> - IEE Proceedings, Science and Measurement Technology, Vol. 150, No3, May 2003	5/2003
<b>A Bifurcated Beam Opto-electronic Camera for Investigation of Phenomena Associated with Fast Rising Arc Voltage.</b> - International Conference on Electrical Fuses and Their Applications, Gdansk, Poland, Sept. 2003	9/2003
<b>Time Correlated Techniques to Investigate Arcing Dynamics about the Peak Voltage instant during Current Interruption in Sand Filled Fuses using an Optical Spectrum Analyser.</b> - International Conference on Electrical Fuses and Their Applications, Clermont-Ferrand, France September 2007	9/2007
<b>Saving Money with Intelligent V-belt Monitoring</b> - Design Products & Applications (DPA) – Trade Journal	3/2009
<b>Monitoring V Belts can save Thousands</b> - Drives and Controls – Trade Journal	2/2009
<b>Time to Tighten your Belts</b> - Energy Management – Trade Journal	3/2009
<b>Monitoring Via Mesh Networks</b> , - Industrial Plant and Equipment– Trade Journal	5/2010
<b>The Development of an Electronic System to Continually Monitor, Indicate and Control, ‘Belt Slippage’ in Industrial Friction ‘V’ Belt Drive Transmission Systems</b> COMADEM - 25th International Congress on Condition Monitoring and Diagnostic Engineering Management, University of Huddersfield.	6/2012
<b>An Electronic System to Detect the Acoustic Emissions Generated by a Friction Drive Belt System in Order to Derive an Indication of Belt ‘Dynamic’ Efficiency</b> COMADEM - 26th International Congress on Condition Monitoring and Diagnostic Engineering Management, Helsinki, Norway	6/2013

### Other Information

Date of Birth: 14 November 1958

### Interests

Formula 1 motor racing - Outdoor activities especially hill walking and scrambling, golf and fishing. Brass band enthusiast, a freelance tuba player playing for many premier brass bands - Travelling and reading any books associated with travel.

