

STEPHEN BARRETT MIET, MRAES • BFPA CONSULTANT • ISO 9000 AUDITOR

FULL MEMBER OF IET & RAES • FULL SECURITY CLEARANCE INCLUDING ITAR (INTERNATIONAL TRAFFIC IN ARMS REGULATIONS)

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A widely experienced consultant engineer with an uncommonly comprehensive knowledge and expertise across a broad spectrum of engineering disciplines. Very strong in the integration of mechanical, hydraulic, electronic, instrumentation and data acquisition and computer systems across a diverse range of industries and applications especially as applied to testing and motion control systems. Currently providing a wide range of consultancy and support services to users of fluid power and mechanical testing systems.

An accomplished trainer having trained over 1000 delegates in subjects covering hydraulics, pressure systems, closed loop control, safety and numerous software packages relating to the fluid power and testing industry.

Employment History

From 1982 to present: Systems Services (S P Barrett Ltd): Founder and Managing Director. In April 2017 Systems Services joined the ZwickRoell family of companies.

Clients / projects

Client	Activity	≈ Value
Private Client	Consultancy, Arbitration of Testing System Failures	-
Private Client	Investigation & Report into hydraulic failure of agricultural vehicle following remedial work by others	-
Private Client	Consultancy on automotive bearing test facilities	£10K
Swansea University	Relocation of test facility including ring main installation	£280K
AMRC with Boeing	Design, install and commission hydraulic ringmain and infrastructure	£50K
Heriot Watt University	Design & build of control system for rail infrastructure testing	£70K
Bombardier Aerospace	Design, build and install an upgrade of an Avery 150T testing facility	£65K
Oceaneering Multiflex	Project Manager/Consultant; Design and build of a new mechanical test facility including assessing specifications, assessing supplier documentation. Acting as technical advisor during build and commissioning. Responsible for acceptance tests.	£2M
BAE SYSTEMS	Lead Engineer; JSF Lightning II 165 channel full scale durability test commissioning.	£80K
Heriot Watt University	Design of 2MN system upgrade, installation, commissioning, training and calibration, on-going support.	£110K
JCB Transmissions	Consultancy & Technical Support; transmission durability facility	£5K pa
BAE SYSTEMS	Project management of service and calibration of all testing equipment, on-going consultancy and technical support.	£25K pa
Tata/British Steel	Relocation of test facility and creation of new testing laboratory	£300K
BAE SYSTEMS, Brough, Woodford & Warton	Commissioning of 80 channel Buccaneer Full Scale Fatigue Test (FSFT), Commissioning of 92 channel Hawk T mk1 FSFT, 16 channel Nimrod MRA2 undercarriage fatigue test, 80 channel Harrier GR4 FSFT & 60 channel Tornado ADV FSFT	£50K to £100K
BAE SYSTEMS	Lead Engineer; JSF Lightning II 165 channel full scale durability test commissioning.	£80K
BMW Group	Consultancy for the design and build of a new mechanical test facility including writing specification, assessing supplier documentation and selecting supplier. Acting as technical advisor during build stage.	£2.75M
Training courses	For Jaguar Land Rover, Global Marine Systems, Tata Steel, BAE SYSTEMS, Rolls Royce, Heriot Watt and Sheffield Universities, GKN, Airbus, Vestas, NFPC, Moog.	

Employment History prior to establishing Systems Services

1978-1982	Losenhausen GB Ltd.	Commissioning Engineer then Project Manager. Installation and Commissioning of turnkey electro-hydraulic testing systems. Technical writing of manuals etc. Management of complete projects from specification origin to acceptance of system by customer.
1974-1978	Keelavite Hydraulics (later Commercial Hydraulics)	Commissioning Engineer. Installation and Commissioning of turnkey electro-hydraulic testing systems. Technical writing of manuals etc.
1971-1974	Rank Xerox	Service Engineer repairing and installing large photocopiers. Customer Relations

Education:

Indentured Apprenticeship with GEC-Elliot Computers

- Attained: City and Guilds Technician Certificate.
 - Subjects: Control Systems, Computing, Electrical Principles, Electronics, Communications.
- Engineering Industry Training Board Certificate

BFPA/CETOP Level Three Industrial Hydraulics

Additional Training:

Training activity	Provider	Date
BFPA/CETOP Level One Pneumatics	National Fluid Power Centre	
BFPA/CETOP Level Three Industrial Hydraulics	National Fluid Power Centre	January – April 2011
ISO9000 Certification	A1 Quality Consultants	December 1998 & 2004
ISO9000 Auditor	A1 Quality Consultants	October 2004
Competent Person – Pressure Systems Safety Regulations	Olaer Fawcett Christie	September 2001
Strain gauging	HBM	
Numerous specialist computer software packages.		
Safety Passport, Asbestos Awareness, Emergency First Aid		

Approved trainer:

Kelsey Instruments K7000 Control System – Trainer	Kelsey Instruments
MOOG SmarTEST/Aerotest Control System – Trainer	MOOG

Professional Development

Full Member of the Institution of Engineering and Technology (IET) formerly IEE.

Full Member of the Royal Aeronautical Society (RAeS).

British Fluid Power Association (BFPA), Consultant Member and Education and Training Committee.



Technical References: available upon request.

Further information on Systems Services activities may be found at www.systems-services.co.uk .

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