

Curriculum Vitae

David Samuel Pearson BA(Hons) MISTC MAICS

Trading as **Electrotech Services**

Date of birth: June 1937

Freelance Technical Author

Married with two grown children

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Training

Radio and television servicing 5 year apprenticeship
City & Guilds certificates

RAF radar fitter - full training.

BA degree with First Class honours with the Open University.

Subjects:

Technology	Science	Mathematics
Instrumentation	Telecommunication systems	Digital computer
Electronics	Control engineering	
Computing and computers	Computer-based information systems	
Computer communication	Programming and programming languages	

Summary of Skills

- Technical writing - specialising in computers and electronics, but quick to learn other subjects.
- Help screen writing - **HDK**
- Documentation in **HTML** format.
- Web page creation.
- Desk top publishing - **Ventura, Word, Framemaker**
- Computer programming – **Visual Basic, C, Assembler**
- Electronics design.

Technical Publications Projects

Writing technical manuals - user and service manuals for electronic systems and computer software.

Extensive experience with **Word** and with **Windows Help** screens development environment – over 800 projects. Also **Framemaker** and **HTML** format documentation.

The following is a list of the main projects I completed as a freelance technical author, working mostly from home. Dates are approximate.

2005 Feb. Tyco/Crompton Instruments. Type Test Procedures formatting. Word.

2005 Jan AMEC Group. Operating Procedures for North Sea Gas installation. Word.

2004 Arithmatica. Documentation for silicon math products for use in computer chip design. Word and Framemaker

2003 New data-driven web site using HTML, Access and ASP.

2003 Tyco/Crompton Instruments. User Manual for Integra Digital Multifunction Electrical Supply Meters. Word.

2003 C&C On-line documentation for emulation software, written in HTML.

2003 LTH. Various User Manuals for pollution monitoring meters. Word.

2002 Alcos BV, Netherlands. On-line and hard copy manuals for SADIS meteorological software project. Word and HTML.

2002 DSM Bakery Ingredients. Maintenance training manuals, highly illustrated with photographs. Word.

2002 C & C Electronics. Editing and formatting of EMC report and manuals for Protocols reference manuals. Word.

2002 Kaiku. Installation and User manuals for quality monitoring equipment. Word.

2001/2 Rotork/Serck Control and Safety. Technical documentation of various control and safety equipment projects. Health and Safety file production. Word.

2001/2 Crompton Instruments. Technical manuals for power equipment monitoring and protection instruments. Word.

2001 Almos BV, Netherlands: On-line and hard copy manuals for various meteorological software projects. Word and Help files.

2000 October Broadcast Developments. Manual for TFT Prompter. This was a technical manual providing operating and basic servicing information for broadcast studio technicians. Written in Word.

2000 October Multipoint. Help files for Bosnia earth station software. The Help screens provide instructions for operators of a VSAT satellite communications earth station. Written in Word/HDK.

2000 Septembter Multipoint Help screens for generic satellite communications earth station software.

2000 September Sigmex BV, Netherlands. Manuals and HTML documentation for meteorological display systems. The software accepts weather reports from meteorological stations and displays weather data in graphical form for use by meteorologists and others. User and system documents written in Word.

2000 August Multipoint BBC Cardiff earth station manual.

2000 July Broadcast Developments. Reformatted manual for BDL Autoscript prompter.

2000 May Multipoint. Technical manual for earth station for BT.

2000 April. Sigmex BV. Documentation for meteorological systems software.

2000 April Multipoint. Technical manual for earth station for Atlantic IT.

2000 March Multipoint. Technical manual for earth station for Vietnam..

2000 March. Sigmex BV. Manuals for meteorological systems.

2000 March. Global Marine Systems. Update of user manual for software tools used by engineers for computing stresses in telecommunication cables laid at sea. Written in Word.

2000 February Multipoint. Help screens for earth station for Thailand.

2000 February Multipoint. Help screens for earth station for Hungary.

2000 February Multipoint. Technical manual and Help screens for earth station for Telenor.

2000 January Multipoint. Technical manual for earth station for French Guyana.

2000 January Multipoint. Technical manual for earth station for Algeria.

2000 January Multipoint. Technical manual for earth station for French Guyana.

1999 December Multipoint. Help screens for BBC TVC7 satellite earth station.

1999 December Sigmex BV Updates to Meteorological Display manuals.

1999 October Spectronic Unicam. Manuals and Help screens for Vision software. The software controls an adjacent spectrometer. Written in Word/HDK.

1999 September Multipoint. Help screens for satellite earth station in Greece.

1999 September Primagraphics Ltd. User and maintenance manuals for Naval Radar Tracker.

1998 September Sigmex BV Updates to Meteorological Display manuals.

1999 April Multipoint System manual for satellite earth station in Yugoslavia.

1999 April Multipoint System manual for ABC International satellite earth station.

1999 April Multipoint System manual and Help screens for satellite earth station in Romania.

1999 April Multipoint System manual for satellite earth station in Greece.

1999 February Bexley Council Community Services. Conversion of Personnel Manual to HTML for on-line access.

1999 February System manuals for Oman satellite earth stations.

1999 February Multipoint M8000 Upconverter technical manual. Service information for engineers engaged in maintenance of the upconverter.

1999 February MDSI Manuals for S700 and S3010 mobile communications.

1998 December Mini-Instrument Radiation measurement meter manuals.

1998 December Sigmex BV Updates to Meteorological Display manuals.

1998 December Multipoint system manual for Eutelsat satellite earth station.

1998 December Multipoint system manual for Infotel satellite earth station.

1998 October Multipoint system manual for BT Madley satellite earth station.
1998 October. Multipoint Help screens for BBC Pebble Mill satellite earth station.
1998 September Sigmex BV Updates to Meteorological Display manuals.
1998 July Multipoint Telenor satellite earth station system manual.
1998 July Multipoint Bosnia Satellite earth station system manual.
1998 May. Multipoint BT Martlesham satellite earth station system manual.
1998 April MDSI Manuals for GPS Receiver, Head and Modem.
1998 April. Multipoint M7700 Satellite earth station system manual.
1998 April Unicam Ltd. Producing Help screens for German manual.
1998 March Sigmex BV Updates to Meteorological Display manuals.
1998 March Infrared Engineering. System manuals for Fort Wayne Projects.
1998 February. Infrared Engineering. Help screens and user guide for Infralab software.
1997 December. Multipoint system manual for IATA earth stations in Korea.
1997 November. Unicam Ltd. Changes to Vision manual and Help screens.
1997 October Sigmex BV. Help screens and manual for Mosa.
1997 October Infrared Engineering technical manual and Help screens.
1997 September Multipoint Hungary Earth Station system manual and Help screens.
1997 August Multipoint Test Vehicle system manual.
1997 July Multipoint RM1710 Camera manual.
1997 July MDSI. Technical manuals for modem and terminal.
1997 July Leica. Lithographic System Manual for Image Processor.
1997 July. Sigmex. METIS Meteorological Display system reference manual update.
1997 June. Active Imaging. Internet camera mount manual.
1997 June. BT Deployable Earth Station manual.
1997 June. Mini-Instruments. SmartION manual.
1997 June. Active Imaging. Internet camera manual and Help screens.
1997 May Multipoint China Earth Station manual.
1997 April Multipoint M7322 Downconverter manual.
1997 March. Sigmex. METIS Meteorological Display system reference manual.
1997 March. Leica. Lithographic System Manual for TFE Column.
1996 December. Sigmex. METIS Meteorological Display system reference manual.
1996 August. Multipoint MCOT Earth Station system manual.
1996 September. Multipoint 7000 Series Upconverter manual.
1996 August. Multipoint BT Warsaw Earth Station system manual.
1996 August. Multipoint BBC 4.6m Earth Station system manual.
1996 August. Multipoint Azerbaijan Earth Station system manual.

1996 June. Mini-Instruments. Digital Dosimeter technical manual.

1996 May. Sigmex BV METIS Meteorological Display system reference manual.

1996 April. Leica. Lithographic System Manual for PGD system.

1996 April. Metallic Process Engineering. Membrane Press manual.

1996 March. Drake Electronics. CMAPSi and ADM Help screens.

1996 February. Herbert & Son. AS500 Cash Machine manual.

1996 January. Universal Services Ltd. Trampoline manual.

1996 January. M6640, M6700 and M7200 satellite communications system technical manuals.

1995 December Drake. Handicom technical manual.

1995 November Bollom Two-pack dispenser manual.

1995 October Mini-Instruments 6000 Series Dosimeter manual.

1995 October Bollom. Briwax Melt Tank and Sprayer.

1995 September Leica. Lithographic System Manual for PGA system.

1995 September Multipoint Communications. M6500 Satellite Communication System.

1995 August MTE Ltd. Lightguard safety system technical manual.

1995 August Metallic Process Engineering. Technical Manual for veneering machine.

1995 July Bollom Documentation for Rolls Royce impeller crack detection system.

1995 July Electronic Control Unit Technical Manual.

1995 June LTH TUM33 meter. User manual.

1995 June Multipoint M6300 Satellite Communication System System manual.

1995 May PMS software Help screens.

1995 April British Gas. Alpha 240 combination boiler.

1995 April Drake Electronics. Help screens for Intercom Configuration system.

1995 March Performance Monitoring Systems. Help screens.

1995 February British Gas. User manual for Ocean combination boiler.

1995 February Hengsler UK. User manual for Time Management system.

1995 February Feedback Data. User manual for part of a premises access system.

1995 January ATI Unicam. Help screens update for UV Visual spectrometry software.

1995 January BSB Electronics Windows Help screens for premises access system.

1994 December Ai Cambridge. User manuals for various leak detection equipments.

1994 December British Telecom Publicity brochure for Intelligent Networks.

1994 November British Telecom User and Engineering manual updates for London Local Fibre network.

1994 October ATI Unicam Conversion of UV Visible spectrometer help screens into a User Manual.

- 1994 October Feedback Data Ltd. User manual for part of a premises access system.
- 1994 September Golden River Ltd. Installation manual for road traffic censor equipment.
- 1994 September BSB Electronics Ltd. Windows Help screens for premises access system.
- 1994 September ATI Unicam Ltd. Windows Help screens for part of UV Visible spectrometer software.
- 1994 September British Telecom. Publicity brochures for BT products.
- 1994 August LTH Ltd User manual for Aquacal 2000 water purity meter.
- 1994 July Number One Systems Ltd. Part of user manual for electronic circuit analysis software.
- 1994 July Sension Ltd. Windows Help screens for a telephone management system.
- 1994 May Feedback Data Ltd User manual for part of a premises access system.
- 1994 January. ACT Sigmex Ltd. User manuals for meteorological display system.
- 1993 December Hasbury Communications Ltd. Test specifications and application notes for data communication systems.
- 1993 August ATI Unicam Ltd Windows Help screens for UV Visual spectrometer control software.
- 1993 August. British Telecom Transmission Network Surveillance technical documentation update.
- 1993 February, British Telecom. Transmission Domain Surveillance System Description and Documentation Architecture survey. The survey document analysed the projected documentation requirements for the entire TDS system. 3 months.
- 1992 September, British Telecom. London Fibre Network Engineering guides. Changes and restyling. 3 months.
- 1992 May, British Telecom. Major update of Transmission Network Surveillance technical documentation. Duration 3 months.
- 1992 April, British Telecom. User manual for British Telecom Concert Modelling and Data Loading Tool. ORACLE database running on Unix. 2 weeks.
- 1992 March, British Telecom. Concert Integrated Management System User Guide styling.
- 1992 January, British Telecom. Transmission Network System System Management Guide. 2 weeks.
- 1991 December, British Telecom. Major updates of User Manuals (four volumes) for Transmission Network Surveillance system. ORACLE database.
- 1991 October, British Telecom. Major update of System Management Guide for a Transmission Network Surveillance system. System used an ORACLE database running on Unix with VAX hardware.
- 1979-1991, Philips Scientific Technical and operating manuals for hardware and software manuals for various spectrophotometers, chromatographs and related equipment, including: PU7000, PU9600, PU9700, PU9800, PU8730, PU8710, PU4400, SP9, SP8-300, SP8-200, SP8-100, PU4027, Falcon, SP9, PU4900,

PU9090, PU9095, PU4700, PU9510, PU9420, PU9007, PU4500, PU4031, PU9415, PW9506, PU4800, PU9416, PU4011/30, SP4-01 and 604.

Pre-1979 Technical writing

Radar, Sonar, communications, instrumentation, software.

User and service manuals for Decca, Plessey, Marconi Marine etc.

Programming Projects

Project dates are in reverse order and are approximate.

1999 January-May – Multipoint – Visual Basic programming:
Satellite communication system remote monitoring and control system.

1992 July Datalogic/Unipart - C programming.
Stock control system running on a PC, using the BTree/ISAM database package.
Duration 5 months. User highly satisfied

1992 June, Prosser Instrumentation - C programming.
RS232 interface and control program for Prosser Airflow meter. Program in C and
Z80 assembler. Duration 1 month.

1992 March CDI - electronic design, C programming. Design, programming and
documentation for a coin exchange machine. Duration 6 months. Very successful

1991 September Lord Transformers - Paradox 3.5 programming.
Purchasing system. Duration 3 months.

1991 August, Electrothermal Engineering - SCULPTOR programming.
Database program to monitor calibration of test equipment. Duration 2 weeks.

1991 August, British Gas - C programming.
Program to convert ordnance survey grid references into street names and
addresses for the location of gas leaks. Duration 3 weeks.

1991 June, CDI Ltd - C++ programming.
Program to generate an environment on a PC which emulates that of a cross-
compiler. This allows programs destined for the cross-compiler to be checked and
debugged in a friendly environment. Duration 3 months.

1990 January, Electrothermal Engineering - SCULPTOR on a PC.
Work Study Analysis database. This was a suite of programs using the fourth
generation language Sculptor. The purpose of the programs was to aid control and
analysis of production by piece workers in a factory.
Duration 6 months. Very successful project.

1989 January, CDI Ltd - electronic design and assembler programming.
Conversion of a car park ticket vending machine into a foreign coin exchange
machine. Duration 4 months.

1988 August, ASL Ltd - C programming.
Telephone call billing program. Part of a large telephone call logging system, the call
billing program was concerned with billing clients for the cost of telephone calls. The
program employed the Ctree database package for storing client account and user
PIN number details. A report generator section provided a means of tailoring the
system to suit the requirements of the end user. IBM PC. C. Contract duration 4
months

1988 May, Philips Scientific - C programming.
Program installation facility for Philips Scientific. A program to install a
chromatography analysis program into a PC. In order to install the program, the user
had to carry out complex procedures which varied according to the type and
configuration of the computer.
The loading program simplified the procedure so that inexperienced computer users
could install the analysis program with ease on any of the computers served. IBM
PC. Language C. Duration 4 weeks

1987 June, Duplex Communications - 8086 assembler.
Communications facility. This was a program intended for use with a telephone call

logging system. Memory-resident and interrupt-driven, the program accepted ASCII strings directly from the RS232C port and stored them in a cyclic buffer. The stored strings were presented to the main call logging program in sequence, on request. IBM PC. Assembler. Duration - 4 weeks

1985, Grant instruments - Basic programming.
Squirrel analysis. This program performed a function similar to the HX20 program described above. I did not write the program initially, but was given the task of improving and maintaining it. I produced several versions to meet specific requirements. IBM PC. Basic. Duration 3 years

1983, Grant Instrument - assembler programming.
Grant Instruments Squirrel analysis. A comprehensive program for displaying and processing measurement information accumulated and stored in Grant Instrument Squirrels. The Squirrel is a small box to which sensors are connected for measuring temperature, humidity, wind velocity or whatever. Accumulated data was downloaded into the Epson HX20. My program in the HX20 received the data, plotted and analysed it. The program included sophisticated filing systems for storing the data files in memory and on cassette. Files of data could also be transmitted to another computer via the RS-232C interface. Data could be plotted on the internal or external printer or plotter against axes controlled by the user. Data analysis included mean and standard deviation, min/max and threshold printouts. Epson HX20. Assembler. Duration 5 years

1980, Communications facility - assembler programming.
A program used for general communication with other computers, such as Telecom Gold and other such hosts. Files can be transmitted from disk and received text can be saved on disk. CP/M 8bit. Assembler. Duration 3 months

Clients

Plessey	Marconi Marine
Marconi Radar	Philips
Grant Instruments	British Gas
Building Reseach	Decca
Rotork Control & Safety	British Telecom
Sension	Golden River
ATI Unicam	Multipoint Communications
Primagraphics	Almos BV, Netherlands
Rotork/Serck Control & Safety	C & C Electronics
LTH Electronics	DSM Bakery Ingredients
Kaiku Electronics	Crompton Instruments (Tyco)

Contracts Required

Technical writing – manuals and help/HTML screens for electronics or computing.

Web page creation.

Programming in C or Visual Basic.

Electronic design.