



SYNOPSIS	Nick Hood is an educator, scientist and technologist. He has a broad range of experience and an international track record in delivering intelligent solutions in education and training across sectors. He brings technical, pedagogical and commercial capability, a solution focused mindset and a personal ethos grounded in Rogers' <i>unconditional positive regard</i> .												
PROFILES	uk.linkedin.com/in/cullaloe about.me/cullaloe	 about.me											
EDUCATION	Edinburgh University , Moray House School of Education <ul style="list-style-type: none">• PhD student (part-time, September 2014 –)• PGCE (Secondary: Physics and Mathematics), July 2004 The Open University , Milton Keynes <ul style="list-style-type: none">• B.Sc. (Hons), November 2002												
QUALIFICATIONS	The General Teaching Council for Scotland <ul style="list-style-type: none">• Full Registration: Physics with Science, July 2005; Mathematics, April 2006 The Science Council <ul style="list-style-type: none">• Chartered Scientist (CSci), July 2004 The Institute of Physics <ul style="list-style-type: none">• Member (MInstP), Chartered Physicist (CPhys), July 2003 The Microsoft Corporation <ul style="list-style-type: none">• MCP Charter Member, 1999• Microsoft Certified Solution Developer, June 2001 The Royal Aeronautical Society <ul style="list-style-type: none">• Corporate Member (MRAeS), August 1999 												
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Fife Regional Council, Education Service

August 2004 to July 2012

- Principal Teacher, Physics (Glenwood HS)
- Teacher of Physics & Mathematics (Kirkcaldy HS)
- Teacher of Physics & Mathematics (Probationer, Buckhaven HS)

cullaloe.net trading as Al Muhandis, Fife

April 2003 to date

Sole trader business providing consultancy and technical services.

- Designed and implemented community website for Physics Teachers in Scotland using WordPress, PHP, mySQL, Javascript, JSON, WP Plugins including customisation.
- Designed and built the naturalpartnersproject.org web showcase for STEM projects in connection with the University of Edinburgh and the Forestry Commission.
- Designed, built and operated iopscompetition.org.uk, a website for national physics competitions the Higgs Boson competition (2014) and Reflections on Light (2016)
- Hosting several community and business websites using WordPress, Joomla!, Drupal at cullaloe.net and community sites using phpBB, mySQL (e.g. [the sptr mailing list](#))
- Unix server administration on shared hosting and VPS including configuration, upgrade, extension and scripting of tools

Cullaloe Project Resource Ltd

February 1997 – July 2003

Fixed rate, fixed price and cost-plus contracts for clients, including:

- **The Scottish Centre for Infection & Environmental Health**
Designed and built the medical reporting system ECOSS using SQL Server 7.0, NT4/IIS, .asp, XML, XSLT, VSS, UNIX. Designed and built the Quick Response (GP Medical) Surveillance System QRSS using SQL Server 7.0, NT4/IIS, MAPI (Exchange). Delivered training and full documentation for users and support staff
- **Purves Plant Hire**
Design specification for plant tracking/scheduling database application using NT4, Access, Windows 2000
- **West Lothian Council**
Conversion of Pagemaker 6.5 forms to dynamic Adobe pdf forms
- **Scarlet Training**
Contract trainer, delivering courses on HTML 4 (Intro and mastering), Java programming, Dreamweaver 4/UltraDev, Adobe PDF programming, Microsoft Mastering VB6 series (Fundamentals, Development, Enterprise, Web App Development), MOC833 SQL Server 7
- **LearningIT**
Contract trainer, delivering courses in advanced HTML, CSS, Javascript, Java programming, Java for C programmers
- **Aspentech**
Design analysis & report on the Heysham 2 Process Plant Simulation upgrade
- **Greater Glasgow & Clyde Valley Tourist Board**
Design and implementation of the visitor information and accommodation booking system website using SQL Server, NT4/IIS, ASP, XLS/XSLT, Javascript, dynamic HTML
- **Deutsche Bank**
Design and development of Private Clients Investment management system using Access/VB6/NT/Win2K
- **Bull**
Design and development of Kwik-Fit Insurance call centre suite using Graham Technologies GT-X system, VB6/NT
- **ICL**
Systems update (Millennium Bug) for tools and utilities using VB4/SQL
- **Anglian Water**
Support and programming for systems roll-out using VB4/Windows98/2K/NT

GEC Marconi Simulation and Training

July 1991 – February 1997

Senior Software Engineer

- GUI application development for auto-initialisation code generation in *C*
- Designed and coded a fault injection package, real-time process plant simulation models and a developer's toolkit for real-time parameter display
- Using: Microsoft VB 4.0, Access SQL, C/C++, VSS, NT3.51

Data Control Manager

- Software Configuration and Engineering Control, Shajiao , *C* Power Station

Bid/Project Manager - Military Operations

- Connah's Quay Power Station simulator
- AS 90 and Warrior OPV military vehicle simulator
- Sea King HAR Mk3A Radar Crew Trainer
- CATT Feasibility Study, MECCA/MARCAS IT system feasibility study
- Bids for AFV Turret (Kuwait) and Sea Harrier FRS.2 Maintenance Trainers

IMACS (UK) Limited, Worthing

February 1990 – May 1991

Commercial Manager

- Business Planning and development. Contract negotiation. Facility management including bespoke MIS/IT Systems and Practices.

Aviation Resources Limited, West Sussex

March 1989 – February 1990

Technical Director

- Lear Jet procedures trainer (Aylesbury). Technical staff recruitment and deployment (Broken Arrow)

British Aerospace Simulation Ltd, Weybridge

Sept 1988 – March 1989

Chief Project Manager – Civil Aircraft Projects

- Jetstream J31 and BAe 146 Phase II Full Flight Simulators (Washington)
- Advanced Turboprop (ATP) Phase II FFS (Woodford)
- BAe146 Cockpit Procedures Trainer (Hatfield)
- Business Development within BAe and European Civil Markets
- Technical Consultancy for Reflectone, Inc., during acquisition by BAe (Tampa)

IMACS (UK) Limited, Worthing

February 1986 – September 1988

Rediffusion Simulation Ltd, Crawley

August 1981 – February 1986

Project Manager

- Visual Display Systems in Concorde, B737, B747, A320, BAe Jetstream Full Flight Simulators for BA, Lufthansa, KLM, SIA and British Aerospace
- Boeing B757/767 Maintenance Trainer update (Seattle)
- TWA B767 Flight Test Update (Kansas City)
- JAL B767 FFS installation and JCAB approval (FAA Phase II) in Tokyo

Systems Design Engineer

- EICAS systems expert for the Boeing B757/767 Maintenance Trainer update
- Designed and modelled the Autobrakes & Secondary Flight Controls Systems for a DC10-30 Cockpit Procedures Trainer.
- Designed and implemented real-time models of aircraft systems in B737, DC-10, L-1011 and B1-B Full Flight Simulators.
- Languages: FORTRAN77, Assembler, JCL & GENESIS.
- Operating Systems: GOULD-SEL32 RTM & MPX.

PROFESSIONAL
EXPERIENCE
(CONTINUED)

Freelance Sales, London

Life Assurance, Telecom and Medical

October 1980 – August 1981

Army (Royal Electrical and Mechanical Engineers)

April 1976 – October 1980

Avionics Technician, Class II

Westland Scout, Gazelle, Lynx and DeHavilland Beaver

Wilbury Hotel, Letchworth

Bar / cellarman

October 1975 – April 1976

C. Hartley and Sons (China & Glass) Ltd, Letchworth

Driver/storeman

May 1975 – October 1975

Jones Cranes Limited, Letchworth

Sales Liaison Officer

May 1974 – May 1975

PUBLIC SERVICE

• **District Commissioner, Forth Valley Branch of the Pony Club**

This youth organisation affiliated to the British Horse Society promotes good citizenship and develops young people through the care and responsible ownership of horses. I led the branch in Central Scotland from November 1994 to June 1997.

• **Member of Fife Region Children's Panel**

I served on this panel, which is the Scottish system for dealing with children in trouble, either as offenders or victims, from May 1993 to March 1996.

PUBLICATIONS

I occasionally have articles published in the Times Educational Supplement. In 1988, I published a paper in Seattle, Washington on "The Principal Officers and their Stations". In 1994, my poem "Keen the eye" was included in an anthology of international poetry published in the USA. I have published a number of text, audio and video blogs and podcasts.

PERSONAL
PROFILE

I am interested in good music and dance; the Internet; science, mathematics and education. I like animals and have experience of showing dogs and equestrianism (show jumping, cross-country and dressage). I like aviation, especially flying. I have been a member of Mensa for over 30 years. I play the guitar and have sung choral works from Mozart to Bernstein. I have lectured on Masonic Symbolism in England and the USA. I like archery for relaxation. I read as much as I can and write a little.

OTHER
QUALIFICATIONS

- JAR Private Pilots Licence (Aeroplanes), July 2000
- CAA Radio Operators Licence, January 1999

DECORATIONS

- Rhodesia Medal (UK), 1980
- Independence Medal (Zimbabwe), 1980

REFERENCES

Available on request.

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