



Personal Details

- Full Name Lewis Callum Hunter
- Date / Place of Birth; Nationality 6 February 1993 / Lanarkshire, Scotland; British

Education

- Currently (July 2017) mid-way through a 4 year PhD at the 'Centre for Doctoral Training' in 'Future Power Networks & Smart Grids' at University of Strathclyde / Imperial College
PhD topic:
 - 'Medium Voltage Direct Current Networks', researching the technical & economic case and developing & analysing engineering design solutions
 - See http://personal.strath.ac.uk/lewis.hunter.100/MVDC/MVDC_Drivers.pptx and http://personal.strath.ac.uk/lewis.hunter.100/MVDC/LHunter_MVDC_UPEC_Paper.pdf
- MEng with Distinction in Electronic and Electrical Engineering at University of Strathclyde, 2015
Specialising in:
 - advanced power systems analysis & protection
 - power electronics for generation and drives
 - wind energy and distributed generation
 - communications and microcontrollers
 Projects on:
 - impact on power networks of increased uptake of electric heating
 - impact on power networks of increased uptake of electric vehicles and development of network accommodation strategies
 - DC bus, integrated storage for tidal turbines, including design of switching level controller
- Calderglen High School, East Kilbride 2004-10
 - Advanced Highers: Physics (B), Music (A)
 - Highers: Mathematics (B), Geography (A), Chemistry (C), English (C)

Employment & Experience

2014-17	Self Employed, Part-Time Audio-Visual Engineer	<p>Have configured, integrated and installed comprehensive, modern AV systems, including streaming, for Claremont Parish Church, East Kilbride, Biggar Parish Church and Blairhill Dundyvan Parish Church, Coatbridge.</p> <p>Provide ad-hoc sound engineering and recording/mixing services to various local bands and musicians.</p> <p>Specialise in use of computer networking technologies. Have undertaken various rack and system design, build and test projects both for installation and for touring. Have basic rigging and installation H&S skills. Have provided services to major events such as at Glasgow Royal Concert Hall.</p>
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2016-17	Shareholder and Part-Time Associate at Uaine Gorm Power Associates Ltd	Providing specialised advice in electrical design, analysis and simulation.
Summer 2015	Iberdrola Engineering and Construction, Blantyre	Assisting in Control and Protection Department, establishing protection settings for major grid infrastructure and sizing a backup battery system for a supergrid substation.
Summer 2014	Telegenic and Videohouse	Helping with outside broadcast vision engineering at the Commonwealth Games (opening ceremony and city street races).
2012-present	Part-time, job-share church officer at Claremont Parish Church, East Kilbride	Duties include building operation and maintenance and have included extensive, hands-on rewiring of the building complex.

Capabilities

Analysis Tools	Power Factory - DigSILENT, MATLAB, Simulink
Programming	C, C++, VBA, Java, Python, assembler, various μ computer (renesas M16C, Arduino, TI MSP430 etc)
Business Applications	Office, iWork
Operating Systems	Mac OS X, Windows, Linux
Audio Visual	Production safety passport
Other	Clean driving license

Achievements and Positions

2016 - Present	Professional Societies	Treasurer and Secretary of the University of Strathclyde Professional Engineer Development Society, PEDS
2012 - Present	Professional Memberships	Student member of Institution of Engineering and Technology, IET and student member of Institute of Electrical and Electronics Engineers, IEEE
2014	Winner of MEng Scholarship from Iberdrola Foundation	Presented in person in Madrid by King and Queen of Spain.
2010	Winner of Ian Cornfoot Memorial Prize and School Board Trophy	Final year school awards for physics and for enterprise.

Other Interests

My musical interests extend beyond recording – I am a proficient bass guitar and tuba player (including a session with the ‘Bluebells’, but more normally with the Clyde Wind Ensemble) and have a Grade 5 in music theory. I play badminton weekly with an eclectic group of good friends aged twenty to seventy plus. I am PVG certified for working with youngsters. I enjoy travel, recently exploring Iceland, Germany and North America.