

Leo Brown

Network Architect

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Summary

I'm a networking and telecommunications expert with 15 years of professional experience spanning mobile, internet, and interconnect technologies across consumer and carrier protocols. I serve as Technical Director for Netfuse Telecom, an innovative Brighton-based telecoms operator (see below). I have expert-level knowledge across all layers of the OSI model from transistor to datacentre, and have been continually learning telecommunications standards for over 25 years.

Skills

Telecoms Protocols: SIP+RTP, SS7 (Expert), GSM / 3GPP / IMS (Advanced)

Routing Protocols: MPLS, VPLS, BGP, OSPF, RIP, VRRP (Expert)

Transport Protocols: Ethernet, IP, 802.1q, GRE/EoIP, IPSec, 802.3ad and other LAG

Layer 3-5 Protocols: DNS, ARP, DHCP, SNMP, NTP, NAT, SSH (Expert) (etc)

Network Software: Apache, Cisco IOS, Kamailio, Asterisk, Wireshark (Expert)

Languages: PHP (Expert), Python (Advanced), C/C++ (Basic), others

Databases and Versioning: Git, Subversion (Expert), MySQL (Expert)

Experience

Netfuse Telecom / Network Architect

Jan 2012 - PRESENT, Brighton UK

I founded Netfuse to capitalise on the convergence of open source and telecoms in the web and integrations space. Since going live we have become a national UK operator with our own number ranges and multi-POP national resilient MPLS metro network which I have built out from the very core, becoming a RIPE LIR, obtaining our own IP space, and establishing carrier interconnects on which to announce our prefixes. In our 5 years of operating we have carried over 100 million minutes, hold several hundred thousand numbers and have provided a totally unique approach to IP Telecoms based on realtime API-led call control. I have personally established MVNO relationships via H3G and Manx Telecom. In Brighton we have won several prestigious customers such as Brandwatch, The i360, Small Batch, etc, but we have clients throughout Europe, the US, the Far East and Australasia including several multinational organisations.

More recently, I have been involved with consultancy at the mobile core, particularly in my work in Sierra Leone's ebola response while establishing MS geolocation data-sharing agreements between MNOs and EHAs which involved working with third party OTT roaming partners to access HLR/VLR and associated mobile core elements and correlating cell tower lat/long data against outputs.

I have been a key founding member the Brighton Digital Exchange (BDX) and continue to serve as the primary facility contact there, overseeing access control and monitoring systems.

Acumen Third Sector / Founder and Lead Developer

Jan 2010 - May 2013, Brighton

I founded Acumen Third Sector to provide Branding, Web and marketing support to the charity sector within a Cooperative framework. We built a portfolio of several very happy clients including The Fawcett Society, Council for Industry and Higher Education, The UK Drugs Policy Commission and others. We decided to close the project due to other commitments.

Acumen Internet Technologies / Technical Director

Sep 2002 - May 2013, Brighton

I founded Acumen as a vehicle for web hosting, software and web development. We began fairly small-scale hosting in Brighton in 2002 when there were only a couple of ISPs in the city. This led us into interesting contracts with the UK Foreign Office, DFID and other HMG departments for whom we produced cloud-based collaborative strategic planning tools for use in reconstruction efforts in Iraq and Afghanistan.

Education

Electronic Engineering

Sep 1999 - Jun 2002, Sussex University, Brighton

I began an Electronic Engineering degree in Sussex University, and despite completing 1st for my first two years, my business endeavors had become far more a compelling path and I chose to pursue this instead.

City and Islington College

Sep 1997 - Jun 1999, London

Electronics - A

Chemistry - C

Physics - C

Recent Publications

Deployment of Caller Location Services within Sierra Leone's 117 Ebola Response Centre / Procedia Engineering

2015, Sierra Leone

I visited Sierra Leone during the West Africa ebola outbreak of 2015 to lobby the national telecoms regulator and incumbent MNOs to adopt and disseminate cell geolocation info to first responders, in order to further improve efficacy of containment operations.

Link: <http://www.sciencedirect.com/science/article/pii/S1877705815010474>

Policy-enabled internet of things deployable platforms for vaccine cold chains / Mobiquitous

2014, London

I worked with University College London engineering department to device a network-based geolocation system using our MVNO to aid in cold-chain vaccine tracking for WHO-led shipments to numerous developing countries.

Link: <http://dl.acm.org/citation.cfm?id=2693023>