

C London, UK

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P S I am young, highly-motivated Network Engineer with extensive experience within a diverse range of networks. In my professional roles, I have demonstrated extensive technical knowledge, alongside the ability to quickly learn new skills, and concepts, and apply them to practical challenges. I thrive on working within a team, where ideas are examined to ensure the best results are achieved. I am recognised for consistently going beyond the call of duty to meet any challenge presented to me to the best of my ability.

C H **Network Development Engineer**, Vialtus Solutions (AS5413) *June 2008 - Present*

- Role within the Network Development team, providing critical fault resolution, and acting as a technical design authority for the EU-wide network supporting the Vialtus product set.
- Responsible for internal and external AS5413 routing policy, across a 60+ node MPLS-TE core network. Acted as the technical lead for the deployment of MPLS/IP feature enhancements allowing optimised resource utilisation, and enhanced network functionality.
- Developed platforms for the delivery of access services (Ethernet, leased line, and xDSL) for both Internet connectivity, and integration within L2 and L3VPN products, including a migration from a UK-wide ATM/Frame-Relay network to third-party SDH transport for the leased line customer base.
- Provided technical escalation, and design services for UK hosting deployments in London, Leeds and Manchester - including a physical migration to allow cost saving and site rationalisation for high-volume hosting products.
- Acted as a technical escalation point for all Network Engineering and Hosting Operations teams - including producing detailed documentation and training for existing, and new, deployments to support such operational teams.
- Co-ordinated off-net connectivity for AS5413 - managing capacity and relationships for both transit and peering across a range of EU IXPs including LINX, AMS-IX and DE-CIX.
- Acted as an external-facing contact to allow the resolution of complex technical issues with vendors and the technical community (e.g. IETF IDR). Liaised externally as an operational security contact for incident mitigation to support the Vialtus DDoS mitigation platform.
- Developed and managed internal operational support systems providing services for Engineering - such as configuration backup, failure modelling, traffic analysis and capacity management applications.
- Provided technical consultancy for Product, Sales and Pre-Sales teams - providing opportunity analysis, feasibility studies, and proof-of-concept deployments to deliver new and bespoke products.
- Presented detailed architectural analysis and documentation internally to CxO level personnel to provide Network Engineering input on company-wide projects, and ongoing commercial development.

Technical Architect, Catalyst2 Services (AS29636) *2003 - 2008*

- Co-ordinated technical operations, with overall responsibility for all *nix systems and network services supporting a SME-focused managed services and hosting provider.
- Designed, implemented and documented a premium, redundant metro network in London (UK).
- Performed day-to-day network operation of AS29636, including management of transit and peering relationships, and defining detailed technical roadmaps for network services.
- Supported commercial elements of the company, including providing pre-sales consultancy, to ensure the continued growth and success of the company.

Systems Administrator, UH Hosting *2001 - 2003*

- Developed and managed hosting, gaming and shell-server platform providing hosting of HTTP, E-Mail and other communications services.

A **Programme Committee**, LINX *October 2006 - January 2009*

- Advised and co-ordinated content for London Internet Exchange member meetings.

Operator, Sovereign House Internet Exchange (SovEx) *November 2005 - April 2007*

- Established and administered a small-scale IXP in London for production IPv6 peering, and exchange of local IPv4 traffic for small/inexperienced networks.

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Networking

- Thorough understanding of Layer 2/3, and MPLS network operation, including over 7 years practical operational and architectural experience in content-provider, IXP and NSP networks.
- Excellent knowledge of MPLS within an SP deployment - including the delivery of L2VPN (AToM, VPLS) and L3VPN (VPNv4, VPNv6) services - operational experience of MPLS QoS including TE and DS-TE.
- Expert level knowledge of intra- and inter-domain IPv4/IPv6 unicast, and MPLS routing. Extensive operational experience of BGPv4, IS-IS, OSPF, and LDP along with typical L3 routing protocols (e.g. RIP, HSRP).
- Extensive knowledge of access service provision, including excellent knowledge of SDH (for delivery of n*DS-0 circuits upwards), L2TP (for xDSL services), and Ethernet.
- Extensive experience of Cisco Systems routing and switching devices including detailed knowledge of ISR 7200, 6500 (with VSS), 7600, and GSR. Experience of IOS from 11.3-12.4T.
- Good knowledge, and operational experience of Juniper Networks routers (M/J-Series), and Extreme switching (including EAPS) for large metro network delivery.
- Experience of Cisco PIX and ASA, Fortinet Fortigate, and Juniper ISG and SSG for packet filtering - including IPS and IDS services. Excellent knowledge of Cisco Detector/Guard DDoS mitigation products.
- Basic knowledge of intra- and inter-domain multicast routing, including PIM-SM, MSDP and MBGP.
- Good knowledge of the delivery of VoIP services - including LAN and WAN implementation experience with Asterisk and Avaya based PBX systems.

Systems Administration

- Extensive experience of *nix platforms - including Linux, FreeBSD and Solaris - to provide hosting and infrastructure services.
- Excellent knowledge of a variety of daemons for HTTP, Mail, AAA (TACACS+, and RADIUS), syslog, and DNS services - including extensive operational experience in SPs and hosting provider environments.
- Excellent knowledge of cPanel and HELM for large shared hosting platform delivery, and knowledge of Xen, and KVM for virtualisation.

Development

- Extensive knowledge of Python, Perl and bash for development and scripting.
- Good knowledge of LaTeX, git and Subversion for documentation creation and revision control.
- Experience of development of both system utilities and simulations in C/C++, and web-based applications in Python, PHP and perl.

E **Physics, Imperial College London** 2005 - 2008

BSc (Hons) - 2:1 Classification
Received the Tessella Prize for Software for Final Year Project

A-Level, Greenhead College, Huddersfield 2003 - 2005

A Levels: 3 A (Mathematics, Physics, General Studies), 2 B (Further Mathematics, History)
AS Level: A (Computing)

GCSE, The Crossley Heath School, Halifax 1998 - 2003

11 GCSEs
7 A* (Mathematics, Dual-Award Science, French, History, IT, English Lang.)
4 A (German, Geography, English Lit., Graphics)
Received the Halifax plc Award for Academic Achievement (Autumn, 1999)

P I
- Keen cyclist - both for transportation and recreation.
- Completed the Duke of Edinburgh Bronze, Silver and Gold awards.
- Alto, Tenor and Soprano Saxophonist (Alto to ABRSM Grade 6) and pianist (Grade 2 Jazz and classical).
- Strong interest in the global internet industry - contributor to RIPE, IETF and LINX.

P I
- Full clean UK driving licence.
- British Citizen

P R *Available on request*