

Benjamin P. Niven-Jenkins

CURRICULUM VITAE

PERSONAL DETAILS

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OFFICE DETAILS

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SKILLS

- Expert knowledge of data networking including IP, MPLS/GMPLS, OSPF, RSVP-TE, IP/MPLS VPNs, VPLS, multicast and all optical networks and their control planes.
- Experience in global telecommunications standardisation including IETF, MFA Forum and ITU-T.
- Experience in using, configuring and diagnosing faults with various IP networking technologies including IPv6, IP QoS, MPLS/GMPLS, OSPF, RSVP-TE, SNMP and IP/MPLS VPNs.
- Configuration of Cisco routers from the 2600 to the GSR12000 series.
- Experience in using SmartBits and Adtech AX4000 router testers.

EXPERIENCE

01/10/2007 – Present, Lead Consultant – Network Architecture, Advanced Engineering & Evolution, BT Design. BT Group's IT and network design and delivery business.

IP & Data network platform architect responsible for overseeing the architecture for all BT's IP & Data network platforms including IP, MPLS, VPLS, Ethernet, ATM & FR.

Responsible for developing the content distribution and media services architecture for BT's 21st Century Network (21C) project and engaging equipment manufacturers and vendors to determine their capabilities and to influence their future road maps so that they can incorporate the necessary features to meet BT's requirements enabling BT to be able to implement the 21C content distribution and media services architecture.

Provided networking and network standardisation consultancy to internal and external customers, including network architecture, high level design and due diligence consultancy activities.

27/07/2006 – 30/09/2007. Lead Consultant – Network Architecture, Next Generation Networks, BT Design. BT Group's IT and network design and delivery business.

Provided network standardisation and networking consultancy to BT Group CTO, BT Global Services CTO and external customers, for example performing a due diligence of Bulgarian Telecom on behalf of Türk Telekom.

Responsible for developing the multicast architecture for BT's 21st Century Network (21C) project and engaging equipment manufacturers and vendors to determine their capabilities and to influence their future road maps so that they can incorporate the necessary features to meet BT's requirements enabling BT to be able to implement the 21C multicast architecture developed.

Responsible for IP/MPLS standardisation in 21C. This involved representing BT (on behalf of BT Group CTO) and the UK (on behalf of Ofcom/the DTI) at ITU-T Study Group 13 (Multi-protocol and IP-based networks and their internetworking) and IETF to influence and steer IP/MPLS standards towards BT's 21C and long-term requirements and vision.

Involved with managing various aspects of the above projects including leading project teams, setting and driving the direction taken, assigning tasks to individuals and co-ordinating with other teams (both inside and outside of BT) in order to ensure co-ordination and to solicit their expert input as required.

01/01/2004 – 26/07/2006. Senior Networking Specialist, New Wave Networks, BT Exact. British Telecommunication's advanced research and technology business.

Involved in internal research for British Telecommunications (BT) focused on visions for how BT's network could evolve over the long-term (2010 and beyond).

Advised BT Global Services' CTO and BT Group CTO on various aspects of technology including ATM, FR and MPLS interworking and standards. Advising BT Wholesale on a possible long-term network scenario and vision which could evolve from BT's 21C vision and which would lead to significantly reduced costs for BT compared to 21C. Evaluating and designing the radically different network and node architectures that result from the future scenario and vision being proposed. Engaging equipment manufacturers and vendors to determine whether their equipment is suitable and to influence their future road maps so that they can incorporate the features and requirements necessary to fulfil the future vision. Identifying and exploiting synergies between BT Wholesale's long-term vision and European Information Society Technologies (IST) project NOBEL. The specific details of my research are confidential and covered by non-disclosure agreements with British Telecommunications and third party networking vendors.

Involved with managing various aspects of the above projects including leading project teams, setting and driving the direction taken, assigning tasks to individuals and co-ordinating with other teams (both inside and outside of BT) in order to ensure co-ordination and to solicit their expert input as required.

Represented BT (on behalf of BT Global Services CTO) and the UK (on behalf of Ofcom/the DTI) at ITU-T Study Group 13 (Multi-protocol and IP-based networks and their internetworking) and IETF to influence and steer future interworking standards for IP and MPLS networks towards BT's 21C and long-term requirements and vision. Representing BT (on behalf of BT Global Services and BT Group CTO) at the MPLS, FR and ATM Forum to influence future MPLS standards and to advise and steer the MPLS and FR Alliance's Service Provider Council toward BT's 21C and long-term requirements and vision. Representing BT (on behalf of BT Group CTO, as part of 21C standards) at ITU-T Next Generation Network Focus Group, which is the key standards body involved in producing the global standards needed for implementation of BT's 21C vision. Responsible for leading the direction taken and work undertaken by the Future Packet Based Network working group which has resulted in BT

being in the driving seat for specifying the next generation of MPLS (IP-based) protocols, which should be of immense benefit to BT's 21C vision.

06/08/2001 – 31/12/2003. IP Network Specialist, Next Generation Networks, BT Exact.

British Telecommunication's advanced research and technology business.

Involved in internal research for British Telecommunications (BT) focused on control planes for all optical networks where switching is performed purely in the optical domain, as no optical electrical conversion is available. Author of several internal papers that identified areas that required further investigation and research and suggested new software technologies for optical networks that has led to two patent filings for BT. Modified Data Connection's GMPLS/OSPF source code so that it could be used to prototype the suggested new software technologies. Involved with managing various aspects of the project including setting and driving the direction taken, assigning tasks to individuals and co-ordinating with other teams when their expert input was required. The specific details of my research are confidential and covered by non-disclosure agreements with British Telecommunications and third party networking vendors.

Advised BT Global Services' CTO on emerging IP and MPLS technologies as well as planning and chairing technical discussions with network equipment vendors and monitoring current standards activities within the IETF and ITU.

Developed and maintained software tools developed by BT to help manage its IP and MPLS networks using C, Perl and SNMP. Tools designed and developed include an Operations, Administration and Maintenance (OAM) tool for BT's MPLS VPN platform to identify problems with the Label Switched Paths (LSPs) in the network and to help reduce the time taken to identify faults.

Designed, configured, deployed and tested MPLS, QoS enabled and VPN test and demonstration networks including participating in an European Institute for Research and Strategic Studies in Telecommunications (Eurescom) project.

QUALIFICATIONS

B.Sc. (First Class Hons) Computer Science/Software Engineering, University of Birmingham

The degree covered a varied range of topics including practical and theoretical computer science and software engineering methodologies. The degree course specialised in programming language, compiler and computational theory for which marks of 96%, 86% and 95% respectively were achieved.

My project, which constituted 25% of my final degree classification, was to design and develop a type checker for Visual Basic. Visual Basic is widely used to create macros in Microsoft Office documents, however it does not contain many of even the most basic modern programming technologies. Developed a tool to process and syntax check Visual Basic source code using a subset of the language to prove the principles involved.

A-Level

Computer Science (B), Electronics (A), General Studies (B), Mathematics (A).

AO-Level

Additional Mathematics (B).

GCSE

Combined Science (Double Award, A*A*), Computing (B), Design & Technology (B), English

Language (B), English Literature (B), French (B), Geography (B), Mathematics (A).

EDUCATION

07/1997 – 07/2001 University of Birmingham, England.
09/1992 - 07/1997 Old Swinford Hospital School, Stourbridge, England.
01/1982 - 07/1992 The Blue Coat School, Edgbaston, England.