

Christopher Murton BSc Hons MIEE CEng

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Profile

A creative systems architect who has a proven track record of taking complex networks and products from initial concept through to revenue generation.

A strategic approach to problem solving based upon deep experience gained during a successful career, with a wide network of contacts throughout the telecommunications industry.

A broad range of technical knowledge, with expertise in both WDM/SONET/SDH and IP/Ethernet product development and networking. Translation of detailed technical issues into commercial concepts. Able to work from the definition of business strategy to a hands on technical level.

Enthusiastic hard working team leader and team player. Friendly, patient and approachable in personal interactions. Enjoys taking on new projects and seeing them through to completion.

Major Achievements

- Mobile operator data network architecture and OSS requirements analysis.
- Architect for several different vendors Next Generation SONET/SDH products.
- Present at the cradle of Ethernet Private Line.
- Numerous patents and international standard contributions to ITU-T, ANSI and IETF, for the definition of SONET/SDH VCAT/GFP.
- Numerous Lightreading (www.lightreading.com) presentations and reports.
- Founded successful consultancy company in 2002.

Key Skills

- Network and product; requirements capture, systems analysis and architecture definition.
- Data and WDM/SONET/SDH network design with associated management systems.
- Systems engineering for C/DWDM and SONET/SDH product development, including both hardware (ASIC/FPGA) and embedded software.
- Metro Ethernet transport involving MPLS protocols and network processor technology.
- Storage Area Network transport using ESCON, Fibre Channel over WDM/SONET/SDH.
- Hands on experience with Cisco/Nortel routers (IP/OSI) and Ethernet LAN technologies.
- Protocols – IP and OSI. Knowledge of IP, RIP, OSPF, BGP, MPLS and GMPLS. Background in LAPD, PPP, BCP, CLNP, ES-IS, IS-IS, TP4.
- Management of systems engineering teams.
- Technology and customer presentations and reports.
- IT - Microsoft Word, Excel, PowerPoint, Outlook, Publisher and Visio.

Professional Experience

Murton Consultancy & Design, Chelmsford, Essex, UK

2002 - present

Consultant for carrier networking and next generation Metro Optical/Ethernet networks.

Completed several projects for a leading UK mobile phone network operator. Projects included the definition of a high availability IP network architecture and the systems engineering for part of the SDH network OSS/OAM, including security considerations. The projects were repeat orders involving concept definition; business and network requirements capture and network design.

Systems engineering for several Next Generation SDH products (MSPP) focused on Ethernet and Storage Transport over VCAT/GFP. These projects included concept definition, requirements capture, product architecture and key technology selection.

Provided extensive analysis, consulting and leading industry presentations on Metro Ethernet and Storage Area Network Extension products and networks. These services were provided to multiple organisations varying from component suppliers to equipment vendors and network operators.

Numerous presentations and reports for Lightreading, which is an Optical Transport industry news web portal.

Developed a market strategy for high capacity 10G/40G transponders in the Core IP router and Metro Ethernet switch markets.

Nortel Networks, Harlow, Essex, UK

1996 - 2002

Systems architect for the Nortel next generation Metro Optical products.

Defined transport requirements and developed innovative new features such as G.709/OTN, SONET/SDH VCAT and GE transport using the GFP and Multi Protocol Label Switching (MPLS). The MPLS aspect involved the application of network processor technology and packet switching hardware.

Developed global technical strategies requiring close liaison with existing and potential customers to ascertain their requirements. Produced specifications for the Nortel Next Generation SONET/SDH products.

Delivered technical presentations to key executives. Managed a team of systems engineers. Significant interaction with other business and engineering groups around the world, this included working on short-term assignment in Canada.

Played a leading role in generating contributions and coordinating efforts in international standards bodies such as the ITU-T, ANSI, ETSI and IETF (RFC3255).

Nortel, Harlow, Essex, UK

1990 - 1996

Project Leader for the SDH Data Communications Network Design team.

Established the team following a presentation to higher management that demonstrated the need for its creation. The objective of the team was to engineer the large data communications (IP/OSI routers) networks needed for management of SDH networks.

Systems engineer for data communications (OSI) associated with Nortel SDH network elements and their management systems. Requirements specification, ITU-T/ISO standards work and successful interoperability testing in a multi-vendor environment. Close interaction with key customers and customer oriented Nortel teams

STC Telecommunications, Basildon, Essex, UK **1988 - 1990**

Design engineer for microprocessor hardware (68020 & 80188), data communications hardware (HDLC & LAN) and data communications software (OSI 7-layer stack) used in an SDH Add Drop Multiplexer (TN-1X). Yourdon structured analysis and design for software.

Marconi Communications, Chelmsford, Essex, UK **1984 - 1988**

Development engineer for the hardware and software in an access multiplexer for BT.

600 Group, Colchester, Essex, UK **1984 - 1984**

Software engineer for CNC Machine Tools, demonstrated in Japan.

Corning Medical, Sudbury, Suffolk, UK **1982 - 1984**

Design engineer for the hardware and software of various medical instruments.

Racal-ESL, High Wycombe, Bucks, UK **1981 - 1982**

Graduate design engineer for the hardware design of a Telex message switch.

Education

Trent Polytechnic, Nottingham, UK **1977 - 1981**

BSc Hons in Electrical and Electronic Engineering (Sandwich Course).

Laurence, Scott & Electromotors, Norwich, Norfolk, UK **1979 - 1980**

Student Apprentice Training Scheme

Fakenham Grammar School, Norfolk, UK **1970 - 1977**

8 O-Levels and A-level Maths

Other

Full UK Driving Licence