

# CAMERON PATTERSON

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## **PROFILE**

A self-motivated highly skilled Network Engineer with genuine passion to see success from projects and programmes undertaken. A wide-ranging set of skills and qualifications in the technical field, together with abilities to quickly learn and adapt to changing business and customer requirements. Proven delivery of multiple large, high-focus contracts through successful engineering and team leadership skills, introduction of creative ideas and flexible practices, and stepping up to meet the unique challenges that networking brings.

## **KEY SKILLS**

- Process & product architecture, technical design & bid support
- Large project team management, leadership & planning
- Technical writing; design and presentation of education materials
- Pre/Post sales customer liaison, on site-presence and support
- CCIE, CCDP, CCSP & CCVP professional certifications; qualified Chartered Engineer
- Wide technical experience in design, implementation and troubleshooting, particularly:
  - Frame Relay & ATM based services, IPVPN, IPSec, Internet SP & Multi-homing
  - Multi-protocol, particularly IBM (DLSw, SNA over IP), Tunnelling and IPX
  - QoS, BGP, MPLS, OSPF, Perl Scripting, management tooling & SNMP
  - IOS routers, Catalyst 6k/4k/3k switch platforms (IOS and CATOS)

## **CAREER HISTORY**

### 2006 – 2007      **ROYAL BANK OF SCOTLAND GROUP (Contract)**

#### 2006 – 2007      **Technical Architect & Support Specialist**

- Responsible for developing group-wide Quality of Service queuing strategy, to be deployed across the multi-platform network estate.
  - Development of tooling to support rapid rollout in a consistent, error-free manner
- Creation of best-practice guidelines and documentation for new IP Telephony rollout
- Research into, and provision of IOS code recommendations for RBSG equipment
- Leading large team deployment of IOS code to 6500 switch base across the United Kingdom, liaison with business areas and responsibility for data gathers, testing, documentation and task assignment as well as implementation plans and change scheduling.
- Problem support on multiple critical issues and production problems
- Production and review of Network Standards Documentation

### 2005 – 2006, 2008      **STANDARD LIFE (Contract)**

#### 2005 – 2006, 2008      **Design Authority & 3<sup>rd</sup> Level Technical Support**

- Responsible for design, implementation and support of Cisco voice/data converged network, utilising Call Manager and ICM/IPCC infrastructure, in UK, Ireland and globally.
- Technical Advocacy for Standard Life's switched and routed MAN / WAN network, security (PIX/ASA), management (Cisco Works), and voice provision between Nortel Meridian legacy PBX / IP, and Cisco unified network environments.
- Design and deployment of security, network health-checking and management tooling, using Cisco ACS for TACACS+ / AAA, Perl scripting, SNMP and MRTG.
- Research and creation of detailed specification tendering for next-generation Remote Access Services. Evaluation and selection of suppliers, project management of implementation.

## 1999 – 2005     **AT&T BUSINESS**

### **2004 – 2005**     **Network Architect**

- Technical Review Board – review of pre-sales network designs before contract signature.
- DSL service offering development – definition of engineering rules for customer site attachments to xDSL networks throughout 7 major European countries.
- Project Executive Team - represent worldwide network engineering interest on projects to harden / scale OSS QoS provisioning tools, replacement Internet service reporting toolsets, and enhancing reporting capabilities of AT&T's IPVPN MPLS service.

### **2003 – 2004**     **Network Consultant**

- Team leadership of 7 engineers rolling out next-generation IBM network service – Power9 in Europe, Middle East & Africa to over 1000 network devices at 350 diverse sites.
- Boarded QoS and many high-speed technologies on AT&T's MPLS Global Network for the first time, including high-order STM1 and STM4 connectivity.
- Led the IBM Power9 engineering team to success, meeting and exceeded targets on productivity and quality, and overhauled the initial PTT created backlog.
- Integrated Engineers from two distinct parts of the business into a single team supporting IBM's network transformation, forging a path to allow their successful incorporation into a single engineering organisation in late 2003.

### **2001 – 2003**     **Senior Network Enabler**

- Global engineering lead for the 350+ site Maersk Sealand network design team.
- Design and solutioning of the network in conjunction with the Maersk customer and third party provider engineering teams, incorporating their QoS and Voice/IPT requirements.
- Responsible for forming and leading a single truly seamless global networking team, of 10+ engineers from US, UK, Latin America and the Nordics– and delivering it successfully.
- Design and specification of a local AT&T network laboratory environment to run proof-of-concept, CCIE preparation, customer testing, VoIP and education sessions.
- Development of internal 2-day classroom and hands-on education for MPLS technology using this lab. Sessions were run many times within the UK, and subsequently via Net meeting / teleconference to colleagues all over Europe.

### **1999 – 2001**     **Network Enabler (Team Leader)**

- Performed AT&T's first commercial IPsec VPN implementation for customer ISS.
- Attained CCIE certification #5634, in routing and switching, passing the rigorous 2-day hands-on practical test at Cisco's Brussels location.
- Design of complex Tier1 Internet BGP routing policies for customer Unisys.

## 1996 – 1999     **IBM GLOBAL NETWORK**

### **1999 – 1999**     **Telecommunications Specialist (Team Leader)**

- Appointed Team Leader for the Northern Network Design & Implementation department.
- Identified the opportunity, designed and implemented a JavaScript tool automating Frame Relay service network management, security and connectivity provision.
- This tool saved more than 3 person years of effort over manual alternatives, and significantly reduced provisioning error rates in the lifetime of the service.

### **1996 – 1999**     **Telecommunications Specialist**

- Responsible for IBM's multi-protocol network PoP capacity management, writing business cases for equipment purchase, performing staging, installation and activation.
- Mentor/coach to numerous new starters in the network department.
- Design and installation of the first IBM Frame-Relay VPN service customers, including NEXT, Grundfos, Smith & Nephew and Sony.

- Devised the idea for and developed the business case for the EMEA virtual team - utilising 'local' European resource outside of the UK as part of an extended team.
- Development and presentation of 3-day training course, hosting Belgian, Dutch and French virtual team members. Virtual teaming concept expanded successfully with subsequent visits to Norway and the Netherlands in 1999, and South Africa in 2001.
- Undertook extra responsibility on the 'callout' rota - a 24hour 3<sup>rd</sup> level technical support role for many thousands of IBM and commercial customer networks and devices around Europe, Africa and the Middle East.

### **PROFESSIONAL CERTIFICATIONS**

- **C.Eng.** - Chartered Engineer, as professional member #32351828 of the IET:  
<http://www.theiet.org/careers/profreg/ceng/index.cfm>
- **Eur. Ing.** – European Engineer, further qualified and recognised throughout Europe:  
<http://www.feani.org/> FEANI #27547.
- **Cisco CCIE.** February 2000. #5634, Routing and Switching. (Fully lab certified).
- **Cisco CCDP.** September 2002. **Cisco CCVP.** June 2005. **Cisco CCSP.** October 2005.  
These Cisco certifications are all current and fully active. Confirmation of this can be obtained via the Cisco Certification credential verification site (please email for your unique generated URL & pass-code for this site if you would like to review)

### **TRAINING UNDERTAKEN**

- **Cisco** classroom sessions including: QoS, MPLS VPN, Advanced BGP & OSPF, LAN switching, CCIE Boot camp, ATM, Design and Troubleshooting etc.
- **Personal / Business Skills** courses including: team leading, project management, coaching and mentoring, Prince2, ISO9000, interviewing & assessment centres etc.

### **EDUCATION AND QUALIFICATIONS**

- **B.Eng. (Hons.)** First Class. Computer Systems Engineering. Lancaster University. 1996.
- **3 A Levels:** Computing [A], Pure & Applied Mathematics [C], Physics [B]. 1993.
- **8 GCSEs:** [7A, 1B]. 1991. Both Berwick-upon-Tweed County High School.

### **PERSONAL**

Nationality: British Citizen.  
Driving Licence: Full UK. (Clean)

### **OUTSIDE INTERESTS**

Travelling, Cinema, Motor Racing, Badminton, Squash, Music, Broadcast media & technologies, particularly including real-time delivery of streaming data. Interests in broadcasting led to significant involvement with the radio station at Lancaster: <http://www.bailriggfm.co.uk> Roles undertaken here included broadcast presenting, Chief Engineer, and election to position of Station Manager. This job entailed responsibility for the entire station operation for 12 months, and regulatory liaison with the Radio Authority (now part of Ofcom).

The most significant achievement in this role was creating the application for, and winning the UK's first permanent FM license for a student radio station.

Over the last few years in Edinburgh this interest has been furthered again with voluntary work with the local community radio station: <http://www.leithfm.co.uk> and again taking on the Chief Engineer role – undertaking significant responsibility and initiating projects to improve infrastructure and resilience – particularly around wireless QoS streaming of the uplink feed to the transmitter feed.

In the first 3 months of 2008 embarking on a round the world trip, taking in the countries and territories of Mexico, Guatemala, Ecuador, Galapagos Islands, Easter Island, Tahiti, New Zealand, Australia and India.