

## Christopher D. Bidwell

### Software, Security and Network Engineer, I.T. Professional.

DOB: 1984, full DOB available on request

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#### Education

- September 2002 – June 2006: University of Manchester, Manchester.  
BSc Computer Science with Industrial Experience (Hons). Result: 2:1.  
Modules including: Programming (C/C++, Java), Networking, Electronics, Processor Design, Computing theory, Computer Graphics, Databases.
- September 2000 – July 2002: Oldham Sixth Form College, Oldham.  
A2: Computing (B), Maths (B), Physics (C). AS: Electronics (A), Further Maths (C).

#### Additional Information

- Languages:
  - German (written and spoken)
  - French (written and spoken)
- Programming Languages:
  - Java, C, C++, Visual Basic
  - ASM (ARM processors)
- Scripting & Markup/Meta Languages:
  - (X)HTML, CSS, ASP, PHP
  - SQL, SOAP/XML
  - BASH, Perl, JavaScript, VBScript
  - VHDL
- Positions of Responsibility:
  - Peer Assisted Study Leader
  - Student rep. on Staff Student Consultative Committee
- Operating Systems:
  - Microsoft DOS, Windows 9x, NT, 2000, XP, CE
  - Unix (Linux, BSD, Solaris), MacOS, VxWorks
- Software Packages:
  - Microsoft Office, OpenOffice.org
  - Macromedia Dreamweaver, Fireworks, Flash
  - Quark Xpress, Adobe InDesign, Photoshop
  - WindRiver RapidControl, many others.
- Training Courses:
  - Personal Effectiveness Development. Course run by Price Waterhouse Coopers in 2005 covering team-building, presentation skills, negotiation and commercial awareness.
- Technical Knowledge/Experience:
  - Networking* – experienced with multicast, VPNs, firewalls and appliances, complex network design and construction, rack organisation & structured cabling, high-performance testing and best-of-breed Intrusion Prevention Systems. Managed an enterprise network as part of third-line network support. Experienced with resource sharing (printer, internet access and storage), DNS, DHCP, proxies, email provision, website hosting and management.
  - Embedded Systems Development* – experience with Integrated Circuit Emulators for low-level control and recovery of embedded devices, remote debugging using gdb and firmware methodologies.
  - Software Engineering* – worked to port third party software written for Linux (PowerPC architecture) to VxWorks (x86 architecture), including integrating with another vendor and their software. Developed applications for Windows and Linux for use by development teams and support staff. Created a proof-of-concept for automatic quarantine of a virus- or worm-infected network host using Perl, an SNMP toolkit and FreeRADIUS, with infection-detection by Snort or an IPS solution. Implemented secure, dynamic community-based websites using server-side scripting with database integration providing access-control, client identification and inter-client communication and protection against SQL-injection and session hijacking.
  - Systems Administration* – 10+ years of experience in installing, maintaining, repairing, scripting and customising Microsoft Windows and Unix-based systems.

## Employment & Experience

- October 2009 – April 2010: Bank of America Merrill Lynch, London. *Design Team Lead*  
Technical Lead on projects for Equities & Electronic Trading domains (across the globe), developing Business Requirements into Technical Requirements and producing standards-compliant Infrastructure Designs with the aid of global Subject Matter Experts.
- July 2006 – October 2009: Merrill Lynch Europe, London. *Network Engineer, Technology Analyst*  
Third-line EMEA network support, managing outsourced first/second-line support functions, performing on-site support for the London campus, resolving major network incidents and planning, implementing and analysing network monitoring for time-critical applications across enterprise infrastructure. Extensive proactive and remedial work to address audit points, known faults, software upgrade and hygiene/standardisation strategies. Performed deep-dive analysis and follow-up reviews. Worked closely with the Equities business as Subject Matter Expert for Networks and regularly troubleshoot and diagnose problems with low-latency trading applications and infrastructure across multiple disciplines working with other infrastructure support teams.  
Co-ordinated, participated in and supported power-down and C&R activities for data-centre and office facilities, managed vendor relations, project handovers and project implementations. Maintained internal quality and information control systems and developed training materials for new-starters as well as process documents in line with GSM/ITIL practices. 'Buddy' to intern and graduate colleagues.
- October 2005 – June 2006: UKChoice Ltd, Manchester. *Software Engineer, Network Admin*  
Maintained several in-house projects, developed and maintained the network infrastructure and built an automated telephone number dialling application based on open source PBX solution Asterisk.
- August 2004 – August 2005: 3Com Europe Ltd, Hemel Hempstead. *Software Engineer*  
Industrial placement working in the Secure Networks engineering team as a software engineering intern on an embedded firewall/VPN termination networking device. Responsibilities included building, testing and distributing device firmware, liaising with partner companies and other teams internally, developing tools for use in-house, specifying and implementing Command Line Interface functionality including internal wrappers, SOAP APIs and WindRiver RapidControl CLI command definitions.  
Other roles held include lab co-ordinator, product-accompanying CD compiler and bug fixer for most of the products web-interface faults.
- December 2003 – August 2004: UKChoice Ltd, Manchester. *Software Engineer, Network Admin*  
Designed and developed an intranet-based (database- and PHP-driven) sales tool to reduce printing and reproduction costs, 'time-to-market' and confusion over out-of-date material.  
Other responsibilities included installing and administering a Linux server for transparent proxying, web content filtering and email virus scanning, deployment of a domain comprising Active Directory and roaming profiles, and installation of the in-office music system. Additionally I was responsible for PC builds, troubleshooting and all network-related development and maintenance.
- Summer 2003: WSL Printing, Brighton. *Programmer (Freelance)*  
Joint lead-programmer on a web-based ordering system to automate the process of ordering business stationery. Key responsibilities include handling all aspects, such as requirements analysis, to design and implementation. Implementation included access control, dynamic database-driven content, dynamic product proofing (image-based) and integration with Adobe InDesign documents via XML.

## External References

Available on request.