CURRICULUM VITAE

Robert David Schofield B.Sc. (Hons.) M.Sc. M.I.E.T. AIEEE. AAPM.

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PERSONAL PROFILE
Highly experienced software engineer with electronics design background, especially interested in software architecture, process management, analysis, design and implementation. Flexible team leader or individual design engineer. Committed to seeing project work through to completion, performed to high standards.

SKILLS PROFILE
- Technical lead and group/team management.
- Extensive Industrial experience in software technology, full product life-cycle.
- Software development at high and low level, using object-based analysis and design techniques.
- Conventional and Agile working methods.
- Full product design - product conceptualisation, requirements determination, use-case specification.
- Real time and multi-tasking operating system applications; distributed networking applications.
- Hardware product development and production management.

ENGINEERING SKILLS

MANAGEMENT & SUPERVISORY
Varied experience including *Project Management, Consultancy (including Technical Lead), Supervision, Teaching & Mentoring, Process Management* and *System Administration.*

DEVELOPMENT AND TASK MANAGEMENT METHODOLOGIES
XP (agile), EVO, RUP, Pattern-based architecture determination, Coad-Yourden, Martin Relational.

PROGRAMMING & META LANGUAGES
C++, C, JAVA, Object Pascal (Delphi), PERL, Javascript, HTML, XML (& other languages at high and low level)

DEVELOPMENT ENVIRONMENTS
Several different *Modelling, Requirements Management, RAD, Source Control and Configuration Management, Build Control, Database, Graphical User Interface* and *Deployment* environments.

OPERATING SYSTEMS
Several different Real time (deterministic) and non-Real time development and target OS environments, including UNIX (and variants), Linux, Windows, pSOS, VRTX, OS-9, Elate.

OTHER DEVELOPMENT
Several unique hardware and software development contexts, tools and systems, including networking, distributed application design, device drivers, scripting, software and hardware interfacing.

NOTE: A detailed engineering skills list and academic record is available at http://www.xs4all.nl/~schofiel/CV/

DEVELOPMENT EXPERIENCE

APPLICATION DOMAINS
- Audio processing
- Embedded products
- Process and Quality control
- Military applications
- Medical imaging
- Image processing
- Investment banking simulation (financial applications/financial derivatives)
- Road Traffic control systems
- Robotics
- UI design and Human-Computer Interaction
- Web based information servers
- Telecommunications and Computer-Telephony Integration (call routing and management)
- Real Time applications
- Simulation (Treasury trading, hardware)

TECHNIQUES
- Communication protocols, drivers, libraries, serialised objects
- Inter-process communication, Synchronous and Asynchronous messaging
- Multi-process application suites, state machine development and application
- Client-Server application design, including Web server/CGI agents.

QUALIFICATIONS

• Open University:	Technical Project management *(Theory and Practice of Project Management)* Technology Management: An Integrative approach *(Technology and innovation management practice)* Human-Computer Interaction *(Theory and practice of user interfaces and ergonomics)* Computer-Based Information Systems *(Information theory & database design)*
• Queens University of Belfast:	**M.Sc.** Electronics
• University of Leeds:	**B.Sc.** (Hons.) Electrical and Electronic Engineering 3 '**A**' Levels /1 '**OA**' Level/10 '**O**' Levels *(Maths, Physics, Chemistry)*

OTHER INFORMATION
- Language skills of varying competence: English (mother tongue), Dutch (fluent spoken), French (limited), German (limited).
- MOD and NATO security clearance previously received (not current).
- Patent holder for Philips Electronics, NV (2000)
- Electronics and mechanical skills gained from extensive practical experience.

EMPLOYMENT HISTORY

Oct. 2009 – Oct. 2010	**Micro Nav Ltd.**, Bournemouth, UK.
Work Involvement:	Analysis of client needs; software and documentation development; assessment of required changes, timescale estimation; analyzing, designing and testing new software; oversight of version control. Responsible for implementation of company domain engineering practices.
Feb. 2009 – Sept. 2009	**WDS Global**, Poole, UK.
Work Involvement:	Technical support specialist (Dutch language). Support and diagnosis responsibilities for Windows Mobile and Android telephones (HTC)
Feb. 2005 – July 2008	**AKAI Digital Technology Group**, Cambridge, UK.
Work Involvement:	New office setup responsibilities. Application programming with Agile (XP based) software development methods to produce advanced DJ playback decks. Project management responsibility for three hardware products.
Sep. 2003 - Jan. 2005	**Full-Time Parenting Duties.**
Work Involvement:	Full time parenting duties for my two sons. Part-time employment in electronics repair and servicing.
Jan. 2003 - Aug. 2003	**SONICBlue, Rio Division,** Cambridge, UK.
Work Involvement:	Technical support and repair activities for advanced MP3 car audio player. Alpha tester for initial software releases. Customer service and fault diagnosis.
Jan. 2002 - Aug. 2002	**Philips RCS,** Leuven, Belgium.
Work Involvement:	Direction of GUI design team: cataloguing of "widgets" in GUI designs: harmonisation of component usage. Design and implementation of visual component renderers in Personal Java target environment.
Aug. 2001- Dec. 2001	**Private Venture Projects**
Work Involvement:	Design and specification of distributed home control system based on Linux using Bluetooth modules.
Apr. 2001 - Aug. 2001	**AOT BV,** Amsterdam, The Netherlands.
Work Involvement:	Consultancy on process management, documentation and development procedures. Specification, analysis and design of Position Management Server for financial markets dealing system.
Dec. 2000 - Feb. 2001	**Irdeto Access,** Hoofdorp, The Netherlands.
Work Involvement:	Consultancy on the design of a Web-server based statistics reporting system. Use-case based specification and analysis of the back-end server architecture.
May. '99 - Nov. 2000	**Philips Business Communications**, Hilversum, The Netherlands.
Work Involvement:	Consultancy on many aspects of IP networking. Product conceptualisation. Design and implementation of CGI Web-server based access and monitoring application (patent awarded).

NOTE: A detailed employment history is available at http://www.xs4all.nl/~schofiel/CV/