

## Résumé

*Simon Lockwood is a qualified Engineer, bringing over 16 years' experience from the fields of commercial software and electronics research and development. Simon offers a unique combination of specific skills, general technical know-how, practical experience and ease of association with other people. These all work together to make a technical leader who can get the job done with a minimum of time, money and fuss.*

### Personal Details

**Name:** Simon Lockwood  
**Date of Birth:** 27<sup>th</sup> October 1972  
**Nationality:** Australian

### Skills/Experience Summary

Following is a summary of skills and system environments, exposure time and skill level ( D-basic, C-competent, B-advanced or A-expert)

<i>Languages</i>	<b>Time</b>	<b>Skill</b>		<b>Time</b>	<b>Skill</b>
C/C++	11	A	BASIC	15	A
SQL/Relational DB Design	12	A	Dbase/Clipper	5	A
Java	1	B	SmallTalk	6m	D
HTML / ASP / JavaScript	1	B	Eiffel	3m	D
Pascal	5	B			
<i>Development Environments</i>					
Turbo Pascal	5	B	PowerHouse	6m	D
Visual C++ (1.5, 4.2, 5, 6)	6	A	Occam	4m	D
Visual Basic (2.0 - 6)	5	B	MS SQL Server	3	B
Visual Basic for Applications	4	B	DB2/2	1	C
Mac Toolbox	2	C	Z80, 80x86, 680x0, AVR, PIC	12m	C
ToolBook/Hypercard	4	C	J2EE, J2MID	6m	C
C-Set OS/2 C Toolkit	2	A	Oracle 8 Ent. Java	2m	D
Borland C++ (2, 3, 4.1)	3	C	Jboss J2EE App Server	6m	C
MFC	5	A	Win32/Platform SDK	4	A
Omnis/FileMaker Plus	3	C	ODBC/ADO/DAO	5	A
<i>Working Environments/Tools</i>					
Microsoft Office	6	A	Atmel AVR Tools	1	B
MS Access (1.5, 2, 95, 97)	6	A	Microchip PIC toolset	6m	C
Rational Rose	3m	C	Microsoft Project	5	B
Visual SourceSafe / PVCS	4	A	Lotus Notes	1m	D
Adobe Photoshop	3	B	Protel	3	B
Adobe Pagemaker	6m	C	Visio	3	B

### Operating Systems

Windows (3.1 – XP)	8	A	Embedded - various	3	B
OS/2, Warp	3	B	Win 3.1 / WfW 3.11	6	A
Solaris, BSD, Linux, SCO	3	C	Windows CE	6m	B

### Other Technical Skills

UML / Jacobsen OOSE	3	B	Object Oriented Design	8	A
Desktop Publishing	5	C			
Mechanical Design & Construction	4	C	Electronic Design & Construction	10	B

### Other Skills

Commercially focussed management of and participation in development and production teams.

Effective negotiation and communication with customers, prospects and any other parties.

Highly effective and efficient analysis of available resources to develop strong and accurate requirement specifications.

Management of development projects for full cycle for completion within time and budget.

Effective leadership of small to medium teams (up to 20) of disparate personalities to form cohesive units tightly focussed on common goals.

Management and participation in full development cycle of consumer products.

Preparation, submission and execution of R&D Grant schemes.

Management of R&D Tax scheme implementation.

Development, introduction and management of QA systems (ISO 9001 series).

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## Employment

### Systemic

(November 2002 – present) – Senior Product Engineer

Developed a Respiratory Calorimeter for general sale. Responsible for the bulk of the project :-

Developed Product / project proposals, budgets and schedules which won the job;

Overall system architecture;

Mechanical & fluid engineering including prototype manufacture;

Design & prototyping of electronic equipment;

Design, implementation and testing of embedded software;

Design, implementation and testing of MFC based Windows application for result storage and analysis including CE version for self contained IPaq/XDA based platform.

Design of case, packaging, documentation;

Implementation and documentation of supply lines and manufacturing processes;

Ensured equipment was compliant with appropriate EMC, electrical and health safety regulations.

Product support and training during beta testing and early phases of introduction of the equipment to major customers.

System architect and team lead in the development of a billing system for use by a new telecommunications carrier.

Consulted in the planning and development of the business model for the delivery of a new business based around the provision of a marketplace for the exchange of mathematical applications.

**Commtech Wireless**

*(Aug 1999 – November 2002) Position – Project Manager, R&D Manager*

Developed a standalone LCD/Keyboard based paging encoder and transmitter for sale into restaurant and small hotel markets. Included hardware and firmware design, product design (appearance, EMC requirements, usability etc), and establishing supply chain from local and Asian manufacturers.

Developed hardware and software based test harnesses used to diagnose and demonstrate design faults in one model of a pager supplied by Commtech.

Technical lead and project manager in the development of a new three tiered wireless messaging platform (“BASEPage 2000”) to ‘glue’ email, paging, SMS messaging, WAP and many other industry specific protocols together. This product is being sold commercially with customer installations under minimal support being the norm.

Developed QA change management system for R&D group.

Authored & submitted successful application for WA Industry Support Scheme (WAISS) R&D grant - \$100,000.00 project.

Developed a simulator using Java and Swing for training dealers in the use of BASEPage’s in-built programmable interface to accommodate new protocols.

Developing a J2EE based inventory management and e-commerce server.

Turned around three out-sourced R&D projects which had blown out from 6 months to three years each and had them completed within 6 months.

**Monadelphous Engineering Associated Ltd**

*(Nov 1998 – July 1999) Position - Senior Network Engineer*

Responsible for the redesign of the corporate WAN connecting the Perth Head Office with eight branches, three of which in remote locations. Wrote software which monitored the condition of those links to alert key personnel and track statistics for later negotiations with service providers. Also held key role in design, implementation and rollout of the corporate intranet, help desk and web sites.

**Department of Minerals and Energy – Tengraph team**

*(April 1998 – Nov 1998) Position – Software Engineer*

Responsible for the continued maintenance of the Tengraph GIS system and the porting of several components from OS/2 to Windows NT platforms. Tengraph is the DME’s system for the storage, tracking and search of mining tenements in WA. Work included the enhancement of the graphical display systems (multi-layered 2d mapping based on several different coordinate systems using raw Win32 GDI), enhancement of the database connection process (to DB2 on mainframe) and assistance in the planning of a web enabled version of the system.

**Labfit Pty Ltd**

*(Jan 1998 – March 1998) Position – Software & Engineering Design Contractor*

Developed the software control, user interface components and significant portions of the mechanics of two models of robotic laboratory equipment – an infrared exhaust gas absorption type Carbon/Sulphur analyser with automated turntable for 48 samples and a Cartesian suspension analyser with up to 1000 samples, stirrer, diluter and software to monitor pH and conductivity of primarily soil samples. These are now being sold worldwide.

**Keytree Pty Ltd**

*(Jun 1997 – March 1998) Position – Analyst Programmer*

Designed and developed accounting package which included general ledger, accounts payable, accounts receivable, wages, loans, reconciliation, depreciation and asset management and parallel tracking for tax vs normal accounting reports.

**Worsley Alumina Pty Ltd**

*(April 1997 – Dec 1997) Position – Senior Network Engineer*

Responsible for the maintenance, documentation and planning of the corporate WAN. Designed and implemented a firewall and in-dial gateway for remote process managers. Provided the back end server infrastructure for the new web server. Assisted in business process documentation for SAP implementation.

**Southern Group Ltd**

*(Dec 1994 – March 1997) Position – Software Development Manager*

Aided in development of a digital audio mass storage system for radio broadcasters which enabled the online storage of large play-lists of audio managed with custom designed consoles.

Project manager and technical lead for development of a court recording and transcription system. Recorded quadraphonic audio tracks mixed down using in-house mixers. Long term storage using DDS and CDROM technologies. 'Turn allocation' system allowed cheap typing pools to replace the normal expense of stenographer. An extension of the court recording system was designed for parliamentary level recording. Featured live video overlay consoles to control a 1000+ channel digital mixer and high speed HDSL large disk array recording environment.

Key player in design, implementation & management of ISO 9001 QA system.

**Contract Development Work**

*(1994) Department of Human Movement Studies, The University of Western Australia*

Developed software package for the capture and analysis of EMG data through an A-D converter board. Also developed package which allowed user to define stimuli patterns as part of the system.

*(1993) WA Institute of Sport*

Developed a package including sensors, serial port interface and data acquisition/analysis software for the assessment of athlete fitness using bicycle and rowing ergometers.

*(1992) Instrument Data Communications*

Developed simulator software for use in training of various industrial protocols – most notably Modbus and similar ANSI protocols.

*(1991) Leco*

Developed stock and sales management system for WA branch of Leco (an international laboratory equipment manufacturer).

*(1990) Cockburn Computers*

Developed finance, project and membership tracking systems based in Clipper environment for customers including Fremantle Hospital, Women's Institute of Self Help, SDR Constructions and others.

*(1990) KSE-Worley Joint Venture*

Developed stats recording and analysis tool for welding NDT reports. Developed software to optimally match required pipe lengths to available stock (to minimise waste).

*(1989) J&G Computers*

Developed general ledger package for University Building Society; statistical analysis package for student enrolments at Curtin University; assisted in the development of a water rates system for the Busselton Water Board.

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***Training/Award History***

Management of Multiple Projects and Objectives	Skillpath	2000
Machining	TAFE SEMC	2000
Welding & Thermal Cutting	TAFE SEMC	1999
Financial Accounting	Canning College	1998
Microsoft Certified Systems Engineer	Sylvan Prometric	1998
Technical Management and Leadership	Skillpath	1996
Digital Server Engineer	Digital	June 1996
Bachelor of Engineering	University of Western Australia	1994
Holmes a Court Flight Scholarships – Distinction	UWA Flying Club	1991
Rotary Youth Leadership Award	Rotary	1990

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***Private & confidential Systemic Pty Ltd 01/03/04***