

## Résumé

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*Martin Howell is an experienced Technical Lead and Senior Software Engineer. Over the last 8 years Martin has developed various distributed IT systems for clients in Australia and previously spent seven years as a Systems Analyst and Developer at VSEL Ltd, designing and developing IT systems for the MoD UK.*

*For twelve years Martin was a Chief Engineer in the Royal Navy specialising in Computer and RADAR systems.*

### **Technical Skills Summary** *(most recent experience listed first)*

#### **Languages**

|                         |  |
|-------------------------|--|
| Java                    | 7 years intensive                      |
| J2EE                    | 4.5 years parallel                     |
| C/C++                   | 15 Years parallel/2 years occasional   |
| VB                      | 3 years parallel                       |
| Ada                     | 3 Years intensive                      |
| SQL,PL/SQL              | 15 years parallel                      |
| Unix Shell scripting    | 3 years parallel                       |
| VAX VMS shell scripting | 3 years parallel                       |
| HTML/ Javascript        | 5 years occasional 2.5 Years intensive |
| XML                     | 4 years parallel                       |

#### **Databases/Tools**

|   |                     |
|---|---------------------|
| Oracle (5, 6, 7, 8 and 9)                                 | 15 years parallel   |
| SQL Server  | 1 year occasional   |
| MySQL   | 2.5 Years intensive |
| Oracle Developer and predecessors (Forms 2, 3, 4 and 4.5) | 15 years parallel   |
| Oracle DBA  | 10 years parallel   |

#### **Frameworks, Application Server, Web Servers**

|                                     |                        |
|-------------------------------------|------------------------|
| JUnit                               | 3 years years parallel |
| Struts                              | 3 years intensive      |
| Apache Turbine                      | 8 months occasional    |
| JAAS                                | 1 year parallel        |
| LOG4J                               | 2.5 year parallel      |
| Bea Weblogic Application Server     | 1.5 Years occasional   |
| Apache Web Server                   | 2.5 years occasional   |
| JBoss, Application Server           | 2.5 year parallel      |
| Tomcat Servlet Container/Web Server | 3.5 years parallel     |

#### **Operating Systems**

|                   |         |
|-------------------|---------|
| Microsoft Windows | 7 years |
| HP-UX             | 7 years |
| VAX VMS           | 4 years |

## ***Personal Details***

**Name:** Martin Howell  
**Date of Birth:** 2nd March 1957  
**Nationality:** Australian  
**Education/Qualifications:** MBCS, Chartered Information System Practitioner. Chief Artificer, Royal Navy (Action Data [Computer Systems])

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## ***Employment (Current Role)***

***January 2002 – August 2004 Education Department***  
*151 Royal Street, East Perth, Western Australia*

*Position: Java Development Consultant (Contract)*

Analysis design and development of the DET open source, enterprise architecture initiative. This involved analysis of the clients requirements, market research for the best of breed open source products to full fill those requirements and the integration of all the products on the development, test and production environments. In addition he has been technical lead on the following DET projects:

Critical Incident (School incident reporting and analysis system);  
Vacation Swimming (Enrolment and Scheduling application for WA Vacation Swimming programme);  
Satweb (Asset tracking and maintenance system for School Of The Air (SOTA)),  
Situations Vacant (Internal Vacancies, work flow application);  
Hospital Schools Services; and  
Police Clearance.

These projects have ranged in size and duration ranging from 2 months for the smaller projects up to 8 months for Vacation Swimming. Analysis and design of all projects followed the Rational Unified Process. Java Enterprise technology used on these projects was Remote Method Invocation (RMI), JNDI (Naming and Directory(LDAP)), JAAS, Java Server Pages JSP, Servlets, Enterprise Java Beans and Simple Object Access Protocol (SOAP).

***March 2001 – Dec 2001 Yambay Technologies***  
*Level 7, 14-16 Victoria Avenue, Perth, Western Australia*

*Position: Senior Software Engineer (Contract)*

***Mach Wireless Gateway***  
*(March 2001 – Present)*

The Yambay platform is an open wireless gateway designed for handheld wireless carriers. Built around an open architecture, the gateway provides an infrastructure solution for operators, which will scale to support future devices such as Palm, RIM and Pocket PC and next generation protocols such as GPRS. The current wireless protocol implemented is WAP. My primary role on this project has been to generate the Java automatic test harness for testing the Server SDK and the Wireless Gateway. The harnesses are primarily for stress testing the product in a complex concurrent environment. The harnesses consist of high volumes of threads controlling RMI wrapped DCOM clients. The servers and their applications have been developed by myself. I also developed C++ harnesses for both Palm OS and Win32 WAP SDKs.

**1994 – March 2001: ADI Limited C4ISR, IS3**  
20-22 Stirling Highway, Nedlands, Western Australia

Position: Project Manager

**Special Operations Command Support System (SOCSS)**  
(Late 1999 – Present)

SOCSS is the command support system for the Australian Special Forces. It is primarily a Java development, with Oracle as the RDBMS and Lotus Notes for groupware and messaging. The Java component comprises all the database GUIs, Logs, Reports, GIS and planning/scheduling tools. I came in as the project manager for the terminal phase of this contract. As well as project manager my technical contribution has been the development of the gateway and XML message parser between the military VHF wireless networks and the core planning component of the system. The gateway automatically parses military standard formatted messages into formats for the planning databases (Oracle) and the commercial messaging system (Lotus Notes).

Position: Architect/Technical Lead

**BattleField Command Support System (Intelligence) (BCSS(INT))**  
(Early 1997 – Late 1999)

This project is the Intelligence component of the tactical IT system for the Australian Land Forces. I took this project from conception to the final release. The development methodology used was JAD/RAD. This involved short intensive periods of requirements elicitation. Requirements analysis was conducted with the customers developing “Use Cases” followed by short development and delivery cycles. The final system was primarily Java on an Oracle database. However a mixture of VB 6.0 and developer 2000 was used for prototype development.

Applications developed as part of the system were mapping tools (an ESRI GIS was interfaced for detailed GIS work), link analysis, time and distance analysis, information collection planning, logs, reports and general intelligence analysis tools. The system was a two tier distributed architecture.

**Special Recovery Command Support System (SRCSS)**  
(Mid 1996 – early 1997)

My Role on this project was technical lead on database design and application development for the SAS counter terrorist IT system. This entailed six months developing the database (Oracle 7.3.4) and the client applications (Oracle Developer 2000 and Java) for the counter terrorist roles of the Special Air Service Regiment (SASR).

During this period I also developed a prototype Maritime RADAR simulator in Java. This was parallel RND work to assist with ADI tendering and has since won a major project for ADI (The Command and Control Operational Trainer (C2OT) for the RAN FFG ships). The simulator is now in full development with myself as Architect and Technical Lead.

**Joint Command Support System (JCSS)**  
(Late 1994 – early 1997)

I was responsible for high level design, system engineering and architecture issues on the Australian Defence Forces largest Command Support System (CSS) project.

The system is Unix based (With Windows NT components) and a two tier distributed architecture. The primary development language was Ada 83, although large portions of code were written in C, C++ and the 4GLs, Lotus Notes V4 and Oracle Developer 2000. In 1995 the main applications were ported to Java.

Duties on the project were varied, ranging from system and database design to application development. During the initial phases of the project I developed the requirements and design database in ORACLE V7 and Forms V4. As my role in this position was focused on system issues I did a lot of work with Enterprise management products like HPs IT/Operations.

I was also responsible for implementing enterprise wide management at customer sites and configuring their system wide backup regimes and system-monitoring etc.

I successfully analysed and modelled the system architecture for five major sites within Australia, producing satisfactory systems on the optimum budget.

***Landing Platform Dock (Replacement)***

*(early 1994 – Late 1994)*

This project was a bid for a major European maritime system. My responsibilities involved performance modelling/studies and the prototyping of applications in both ORACLE Forms V4 and C. One of the main applications prototyped was the logistic loading and unloading automatic scheduler. I was also heavily involved in the interfacing of third party applications on Unix, VMS and DOS/Windows platforms

**1987 – 1994: VSEL Systems**

*Portsmouth, Hants, UK*

My primary role with VSEL was as Systems Analyst designing real time IT systems for warship combat management. The design methodology was based on Yourdon/Ward Mellor functional decomposition and the case tool used was Mentor Graphics “Analyst RT” (Real Time). I also Developed Ada code for real time Combat Management Systems as part of the system design process. During this period I also produced PC based applications in Microsoft C for commercial customers.

Other duties included Database design and implementation. The database work involved a lot of ORACLE Forms development (V2 and V3). Other ORACLE work included optimisation of SQL and PL/SQL code in the VSEL design tool the “Integrated Modelling Environment” (IME).

I spent eighteen months as in house support to the Chief Naval System Engineer at the Defence Research Agency, Portsmouth UK. The contract was primarily for the development of PC based signal processing and RADAR system models for the examination mutual RADAR interference.

**1975 – 1987: Royal Navy (Chief Artificer)**

*Portsmouth, Hants, UK*

*My main duties as a Chief Artificer covered:*

- System engineer for a destroyers computer real time combat management system, also the ships IT systems for stores, accounting and off line batch processing.
- System engineer for associated peripherals including data links and displays.
- Analysis of software performance from diagnosis of system dumps/recordings.
- Software responsibilities covered on line software diagnostics and patching to the analysis of system crash dumps for advice to the Admiralty Ship Maintenance Authority.
- On site development of diagnostic software on both DEC PDP11/24 and Ferranti FM1600 platforms.

### ***Training History***

|  |                      |                |
|--|----------------------|----------------|
| Prince II Project Management           | Ferguson PMS Pty Ltd | September 2000 |
| BEA Weblogic Server                    | ASERT, Australia     | August 2000    |
| Mastering MS Visual Basic              | AlphaWest            | January 2000   |
| Modular Project Management             | CPM Training         | November 1999  |
| Java Programming                       | Sun Australia        | February 1999  |
| Oracle Database Administration (V8)    | Oracle               | December 1998  |
| Lotus Notes R4 Application Development | Com Tech             | January 1998   |
| Orbix CORBA                            | Iona                 | February 1997  |
| HP-UX System Administration            | Hewlett Packard      | September 1996 |
| Lotus Notes Advanced                   | ATI                  | December 1995  |
| Oracle Forms 4.5                       | Oracle (UK)          | December 1992  |
| Vax VMS System Management              | Digital (UK)         | May 1990       |
| Oracle Database Administrator          | Oracle (UK)          | August 1989    |
| Oracle Forms 2.0                       | Oracle (UK)          | June 1989      |
| Vax ADA                                | Digital (UK)         | June 1989      |
| Analyst R/T (Yourdon/Ward Mellor)      | Mentor Graphics      | May 1989       |

