

## CONRAD P. WOOLSTON

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### BUSINESS CONSULTANT ARCHITECT

#### Project Management / Consulting / System Design Architecture & Implementation

Motivated and results driven IT Internet projects consultant with 20+ years of professional experience having degrees in Electrical Engineering, Information Technology and a Master of IT. E-business consultant with a proven track record in planning, building and launching successful, high profile business applications. Architect for maximising benefits of both existing and new applications.

Enthusiastic team leader and mentor, able to communicate and build team cohesion to achieve common and realistic goals. Good client liaison and management skills, enjoys relating and interface with customers, business groups and senior executives within organisations.

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### AREAS OF EXPERTISE

*Strategic planning and execution*

*Management consulting*

*Team leadership*

*E-Business E-Commerce B-B Technologies*

*Technology migration strategist*

*Microsoft ASP.NET ADO.NET SQLServer*

*ASP.NET Win32*

*Data Migration, Integration, Storage*

*Business to Business technologies*

*Java J2EE ODBC Oracle Unix Internet  
Technologies*

### QUALIFICATIONS

- **Microsoft Certified Professional (MCP)**, *Dialog 2001*
- **Master of IT**, *Queensland University of Technology Australia (High Level Control using Software modeling and automated protection C++) Australia 1998-1999*
- **Confederation of British Industries Scholarship**, *Quality Software Design Bath UK 1990*
- **Post Graduate Diploma Computer Science**, *University of Queensland Australia 1982-1984*
- **Bachelor of Electrical Engineering**, *Queensland University of Technology Australia Thesis Computer Controls and Mimic Diagrams' 1978-1981*
- **Full Member Institute of Engineers Australia**

### CAREER HIGHLIGHTS

- Developed 'Plant Overload Protection' software (Modeling and Automated Protection System) that saves Energex \$1 million / year.
- Won a Scholarship to UK for embedded software control at Invensys.
- Long history of successful projects within budget and time: [www.epriceboard.com](http://www.epriceboard.com), [www.project.abr.gov.au](http://www.project.abr.gov.au), [thetatechnologies.com.au](http://thetatechnologies.com.au), [abr](http://abr), [IJIS](http://IJIS), [PeterPans.com](http://PeterPans.com), [www.thetatechnologies.com.au](http://www.thetatechnologies.com.au)
- Successful setting and applying of standards for code development, exceptions, module identification and re-use of ASPX module (user + Custom Controls).

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## PROFESSIONAL EXPERIENCE

2004 -2007 (Contract) Natural Resources Mines and Water (GERM)

### **Senior IT Architect**

Architecture for IT application development within Natural Resources. Responsible for development of .NET Framework and migration to .NET 2.0, SQL Server 2005, Visual Studio 2005. Running of .NET working group, presentations, team involvement, mentoring, difficult problem solving for PASS and other .NET application developments. Approvals and architecture reviews of products developed including SharePoint, BIZTALK, Windows FX, WCF, WWF and WPF.

(Microsoft .NET Asp.net, Ado.net / Web Services / BizTalk / Active Directory / VS2005 / .NET 2.0 / XLM / XSLT / JSR168 / WSRP).

- Architectural design and steering to develop a common Microsoft framework
- Development and migration to .NET 2.0 framework, sample application and architecture.
- Leadership and running of .NET working group, presentations, development and collaboration using SharePoint of .NET and Microsoft development and integration into NRMW.
- Review and overview of Service Oriented Architectures, SOA, migration strategies.
- Development of Portals for usage in Software Development for Web based products within NRMW using WSRP.

2004 -2004(9 Months Contract) Queensland Police

### **Software Team Leader / Architect IJIS**

Management of a software development project team (9 developers, 4 testers) developing a Microsoft .NET Enterprise Scaled Intranet Web based application for transfer of sensitive police charges data to the Legal Court systems. Responsible for reviewing high level requirements, completing and approving detailed designs and planning, estimating, allocating the timeframes and reporting to management Project status, managing risks, deadlines and architectural risks associated with the project.

(Microsoft .NET Asp.net, Ado.net / Web Services / BizTalk / Rational Rose / Security / Encryption / NUNIT/ FXCOP / .NET Reflector / VBCommenter / Cruise Control / Active Directory / XLM / XSLT / Style Vision).

- Client liaison, Management of the team of developers, allocation of work, estimation of timeframes, project plans, review of designs, code, test plans, deployment, UAT, release.
- Identification of risks and tracking and reporting on slippage and reasons for project plan differences.
- Development and testing of the completed web based product.
- Architectural design and steering to develop a common framework that all modules to use.

2003-2004 (6 Months Contract) Eye Jam Interactive Pty Ltd

### **Senior Developer**

Design and development of a Web based application for Travel Agency business managing the complete business Peter Pan Adventure travel. This included a full shopping cart ([www.peterpans.com](http://www.peterpans.com)), which allowed staff to purchase products for commission based sales. This produced a full shopping cart, determination of pays and bonuses based on bonus points due to volume and commission achieved per sale. In this way management can monitor performance for each employee for small intervals such as week, day or hour.

(Web / Winforms / PHP4 / MySQL / OSCommerce Open source project).

- Client Liaison, Business analysis and requirements gathering.
- Software design, estimation of time frame for completion.
- Development and testing of the completed web based product.

2002-2003 (14 Months Contract) ThetaTechnologies Pty Ltd

### **Project Manager / Business Analyst / Architect**

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E-commerce project development of a web based system used for document management and on-line training in the meat industry. I managed the project from inception to completion, beginning with the customer, determining and writing the customer requirements document, performing the overall system architecture design, system design and sourcing and trial of third party products required to integrate into the system with a prototype to mitigate risks identified.

This included business case proposal, customer liaison, architecture, analysis, design, project plans and development of corporate products. I conducted open forums power point demonstrations with 20 different meat processing companies and a wide range of government departments (8 states + National) for reporting and integration of essential information required by users to obtain government funding for training assistance and traineeships. All of these requirements were captured and verified at open forums to confirm the design was accurate before beginning actual development.

This included managing assigning work and overseeing a team of eight (8) professional staff (developers, installers, testers, document writers) designing standard test plans, providing junior developers with mentoring and assistance.

(Web / Winforms / ITIL / PRINCEII / SharePoint / VB.NET / C#.NET / ADO.NET / ASP.NET / SQLServer / Crystal Reports / Full SDLC / Object Oriented Design / RUP / Rational Use Cases / XML / Web Services).

- Client Liaison, Business analysis and requirements gathering.
- Development of business requirements, architecture, data analysis, data modelling, software design and prototype development.
- Locating and testing of suitable third party products and integration (i.e. Office to PDF conversion (AMYUNI), zip and ftp products).
- Project plan development, updating and reporting to senior management project status.
- Maximising staff performance by reviewing work, setting targets and mentoring.
- Successful development of QTS application a world-class application within time and budget.
- Successful setting and applying of standards for code development, exceptions, module identification and re-use of ASPX module (user Controls).

2002 (3 Months Contract)

Australian Taxation Office

### **Senior Analyst**

The Australian Business Register Internet E-Commerce product development (VB.NET / C#.NET / ADO.NET / .NET / COM+ / SQLServer / SOAP / XML / Explicit XML / Business Documents / Serialisation / Integration Mainframe / PKI ATO Framework).

- Development of a Windows2000 E-Commerce web application providing business services to other applications on IIS using the full Microsoft suite of applications Visual Studio.NET, IIS, terminal services, Microsoft SQL Server..
- Serialised Business Documents (Using XML, SOAP) for service calls between COM components and DOT.NET framework components.
- Software Development using VB.NET and Visual Studio.NET (Version 7).
- Debugging 'live' applications combining both COM+ and .NET managed components using visual studio.
- Successful development of ABR application a world-class application.
- Successful setting and applying of standards for code development, exceptions, module identification and re-use of ASPX module (user Controls).

2002 (4 Months Contract)

Fuel Watch

### **Project Manager / Team Leader**

E-Commerce WEB site 'epriceboard.com' project. This allows petrol station operators to set their prices. It required web services for access by channel 9, usage and interfacing to web services from fifthfinger.com for SMS (Microsoft.NET / VB.NET / C#.NET / ADO.NET / COM+ / SQLServer / SOAP / XML / Web Services / RUP).

- Project planning, budgeting and definition of project scope.
- Software Design, Data Migration, Data Integration and Data design and storage.
- Management of a team of developers (5), +testers, +users to plan and architect the successful development of a WEB based application.
- Code reviews, standards enforcement and mentoring of junior developers.
- Successful deployment of DOT.NET web application under estimated time and budget.
- Successful setting and applying of standards for code development, exceptions, module identification and re-use of ASPX module (user Controls).

2001 – 2002 (4 Months Contract)

VerifyMe

**Senior Java Analyst / Architect**

IVR voice project. Senior design and development of the product (Java / JavaMail / Nuance / Oracle 9I / CTI / IVR / OSCAR).

- Tender and quote for fixed price contracts, designing and integrating systems, estimation of time for project development, testing, migration.
- Development of Web ASP application for account creation and maintenance.
- Development of Software Quality Design methods (SDLC) incorporating ISO9001 and ISO9003.
- Successful adoption of voice recognition technology for UCMS.

2001 – 2001 (4 Months contract)

Queensland Investment Corporation

**Team Leader / Architect J2EE**

Management of a team of fourteen (14) to develop and extend several Web based E-Commerce projects concurrently. Product analysis and Architecture of solution in conjunction with customers, project management of the products within time and budget deadlines. Scheduling of meetings to report to senior management for progress on works, other departments (i.e. infrastructure and testing groups). Architecture and detailed knowledge of the technology (Java J2EE 2.0 JBuilder, JSP 1.1, EJB's 2.0, Oracle 8I, JDBC 2.0 and Weblogic 6.1, XML / RUP).

- Architecture and software design with consultation with customer for a software solution.
- Scheduling of meetings and communication with staff on a regular basis to ensure they are working effectively to achieve common goals.
- Code reviews and assessment of software developed, Problem solving and technical assistance to developers as required.
- Assessment of Struts as a suitable MVC Architecture.
- Successful team management for development of the TIM and Lynx applications.
- Effective communication with the team to achieve quality software in reasonable time.

2000 – 2001 (9 Months Contract)

Dimension Data

**Team Leader / Senior Developer**

Banking IVR telephone banking project for BOQ. Senior role developing middleware on Tuxedo for authentication of customers using pin numbers for banking transactions. Developed services in tuxedo to authenticate and encrypt data using both software and hardware encryption (UNIX / AIX / Tuxedo / C++ / Java / SSL / IBM 4758 card PKCS#11 / ORACLE OCI / C++ for UNIX sockets and Tuxedo).

- Analysis and design of the system. Breaking up and distribution to other developers, integration to other systems and developers such as the IBM mainframe and other Tuxedo services.
- Design development and installation of Oracle 8i for the verification application.
- Develop Java and C++ applications to ORACLE (insert, query, delete and update).
- Interface to the hardware encryption card and SSLeay software library, to perform encryption using triple DES.
- Successfully developed the application in less time than allocated.
- Consulted successfully on technology choices for encryption, languages and solutions for the authentication project.

1999 – 2000 (10 Months Contract)

Energex

## Consultant / Project Leader

Consultant to Energex on the migration and adoption of a change management system for IT source code control and product builds (Telelogic Synergy Java / PERL / KSH / Bash / HPUX / UNIX / HTML / Apache).

- Prepare project plans and updates on project progress to upper management (Microsoft Project).
- Assess change management methods presently employed by each development team.
- Migration of IT groups to change management and assistance and deployment of product builds.
- WEB based application on Unix (HPUX) using HTML, PERL and Ksh scripts to allow management to migrate software changes through the change management systems.

1998 – 2000 (13 Months Contract)

Invensys (AUS)

## Software Team Leader

Hong Kong transit SIL 2 standard SCADA project (\$50Million). Management of a team (5) to develop a C++ on Solaris application including migration and integration into a large base of Foxscada (> 500,000 lines). True Object Oriented development using the full suite of Rational tools and automated testing of modules developed. Full SDLC development according to SIL2 military standards of development (SCADA / Booch / UML / RationalRose / Automated Testing / PureCove / Purify / OO / C++ / Solaris / SIL2).

- Manage the development of several large and complex modules for Hong Kong transport.
- Estimate schedules and numbers of staff to meet strict deadlines.
- Debug software using the Solaris workshop-debugging environment DBX.
- Utilise Rational products to perform automated testing, code complexity, quality and comment frequency.

1992 – 1998

Energex

## Team Manager / Senior Computer Systems Engineer

Senior Analyst and Manager of a team supporting and developing new applications in the real time environment for control of the electricity distribution network throughout SE Qld. (SCADA, C++ on HPUX, True 64 and QNX using threads, POSIX, message queues, shared memory, semaphore, locking, scheduling algorithms and interrupts, Java / C / C++ / HTML / Delphi / Win32 / QNX / Nutrino / RTOS / Threads / POSIX / DNP / RS2323 / TCPIP).

- Develop supervisory control and data acquisition (SCADA) Remote Terminal Unit Software systems design and development of process control systems.
- Management of this team for extended periods.
- Developed 'Plant Overload Protection' software (Modeling and Automated Protection System) that saves Energex \$1 million per year
- Develop client server applications using VB, Delphi and VC++/MFC.
- Develop C++, KSH, CSH, PERL software for UNIX Servers (Client Server TCPIP sockets).

1990 – 1992

Invensys (UK)

## Software Team Leader

London Underground control project (\$100 Million). Leadership of a team for development of the PAC sub-system (5 Engineers). Design and implement the control and signalling system used by London Underground (SDLC / OO / Case / YOURDON / Quality Assurance BS5000 software quality).

- SDLC Hierarchical top down / Bottom Up specification design using team review and critic.
- Plan and schedule applications, testing, and integration according to strict time frames.

1982 – 1990

Queensland Rail

## Electrical Engineer

## Manager IT & Telecommunications

## Conrad P. Woolston

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Initially as Software Engineer responsible for software development power and software systems for computer control of trains. (Assembler / PDP11 / HP1000 / Modula2 / C / SCADA / Pascal / train control CTC Telemetry). During 1989-1990 management of a team (14 staff) responsible for installation and maintenance of the telecommunications microwave, optical fibre and LAN/WAN communications networks in north Queensland.

## COURSES

Team Management	Sun Java Certification
Project Planning	CORBA (C++ Binding)
WEB Development Internet Technology	Visual C++
Java Programming Language	Unix System Administration
Object Oriented Design (Object Technology Sydney)	PLSQL Forms 5

## PUBLICATIONS

“Automated Plant Protection Using Intelligent Modelling”, Distribution 2000 Brisbane.

**References available on request**

## SKILLS

Software	Years
Software Design and Development (SDLC), Object Oriented UML, RUP, WaterFall, Top Down, BottomUp, Vlife cycle, Fountain Lifecycles.	20
Visual Studio Microsoft ASP.NET VB.NET C#.NET ASPX ADO.NET Web Services, XML, VXML, ASP, SOAP, XSL, XML, Crystal Reports	2
Java, J2EE, EJB, JSP	3
C++, C	10
Visual C++/ MFC	2
Oracle 9I, Designer 2000, SQL, PLSQL, TOAD, SQLNAV, 'C' interfaces (PROC, OCI)	4
Assemblers Intel 80X86, 68000, PDP11	6
Change management (PVCS, RCS, CVS, Telelogic Synergy, Source Safe)	15
Rational Rose, Clear Case, Purify(Rational), Pure Coverage	2
Encryption IBM 4578 Encryption RSA/CCA/PKCS/OpenSSL/HTTPS	2
GNU C++ ddd, Solaris Workshop Debugger dbx	3
<b>Operating Systems</b>	
Windows XP, 2000, NT, 3.1 Desktop and Server	15
UNIX : AIX , HPUNIX, Solaris, DigitalUnix, QNX, POSIX, NUTRINO, Linux (Redhat/FreeBSD/Debian) XWindows, Makefiles	10
<b>Standards</b>	
W3C, ISO, BSO, APRA, IEEE	

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