

CONRAD P. WOOLSTON

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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. Recognized Business Analyst with a proven track record in communicating effectively with customers and senior managers at many levels to ascertain requirements for business applications and to specify such for the business to agree on.

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

AREAS OF EXPERTISE

Strategic planning and execution

Management consulting

Team leadership

E-Business E-Commerce B-B technologies

Technology migration strategist

Microsoft.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 of 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 per year.
- Won a scholarship to UK for embedded software control at Invensys.
- Successful launch of epriceboard.com, www.project.abr.gov.au/, thetatechnologies.com.au within budget and time.
- Successful setting and applying of standards for code development, exceptions, module identification and re-use of ASPX module (user Controls).
- Take it payment gateway development.

PROFESSIONAL EXPERIENCE

2007 - Current Director DataOne Consulting Pty Ltd

Software Technical Architect

Multiple roles as Director, Sales, Consulting, BA and Project Management.

2004 -2007 (4 years Contract) Depart Natural Resources (DERM)

Software Technical Architect

Architecture and direction for IT application development within DERM. Responsible for development of .NET framework and migration to .NET 2/3/4, SQLServer 2004, Visual Studio 2005/8. Running of the .NET working group, presentations, team mentoring, problem solving. Approvals and reviews of products developed in SharePoint, Biztalk, Weblogic.

(Microsoft .NET Asp.net, Ado.net / Web Services / BizTalk / Security / Encryption / NUNIT/ FXCOP / .NET Reflector / VBCommenter / Cruise Control / Active Directory).

- Architectural design and steering of a common Framework for Microsoft applications
- Leadership and running of the .NET working group, presentations, consulting
- SOA Services Oriented Architectures for whole of department

2004 -2005 (9 Months Contract)

Queensland Police

Software Team Leader / Architect / Designer

Initially this began with determination of business requirements for the product required to transfer sensitive information from Police to Justice departments electronically. Once complete I managed 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).

- Client liaison and communication with many levels within Police Justice, IJIS to determine business requirements.
- 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.

2002-2003 (12 Months Contract)

ThetaTechnologies

Business Analyst/Senior Architect

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 / ADO.NET / ASP.NET / SQLServer / Full SDLC / Object Oriented Design / RUP / Rational Use Cases / XML / HL7 / 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).

2002-2002 (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 – 2002 (4 Months Contract)

Fuel Watch

Business Analyst

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).

- Project planning, budgeting and definition of project scope using ITIL PrinceII principles.
- 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

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 / Business Analyst

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

- 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

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).
- Asses 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

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)

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

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

Project Management, ITIL, PRINCE2	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.NET VB.NET C#.NET ASPX ADO.NET Web Services, XML, VXML, ASP, SOAP, XSL, XML	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
Operating Systems	
Windows XP, 2000, NT, 3.1 Desktop and Server	15
UNIX : AIX , HPUX, Solaris, DigitalUnix, QNX, POSIX, NUTRINO, Linux (Redhat/FreeBSD/Debian) XWindows, Makefiles	10