

# Robert J. DuWors, CISSP, CISA

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## IT Architect: Matching business needs to effective and secure IT solutions

### Sr. Principal Application Information Security Analyst Symantec Corporation: Eugene, Oregon (2 years)

*Information Security*

*Change Management*

*Policy Development*

*Process Development*

*Risk Management*

Create IT security policies, procedures and best practices for the Symantec IT department and for use of outside IT services. Perform review of application architectures utilizing extensive experience in system analysis, design, and implementation. Represent and participate as the Info-Sec member of core teams for Project Portfolio Management (PPM) and Change Advisory Board (CAB). Conduct Security Assurance Reviews (SAR) for all stages of the Project Delivery Framework (PDF) SDLC: project initiation, architecture overviews, secure development practices, and final release to production. Enforce privacy and compliance requirements such as PCI and SOX. Review and use security tools such Appscan for web applications

### IT Enterprise and Solution Architect, Connected Systems Group: Seattle, Cincinnati, Ottawa (15+ years)

Successfully established the Connected Systems Group (CSGroup) to provide IT consulting services to the private and public sectors for the hands on construction of leading edge distributed systems across multiple generations of technologies.

#### Client List

Alltel	DOD USAF	MDS Areo Support
Anthem BC & BS	DND (CDN)	New Zealand Post
Boeing	ETAS	Optimization NZ
Bailey Controls	Farmers Insurance	Qualcomm
Convergys	Gandalf Data Systems	Progressive Insurance
Chiron Diagnostics	Geovision	Public Works Canada

#### Representative CSGroup Projects

*Systems Analysis and Design*

*Business Solution Architecture*

*Enterprise Architecture*

*Engineering Product Development*

*Software Engineering*

*New Technologies*

**Anthem Inc.** – launched the Enterprise Architecture initiatives as the Chief Architect and member of the senior IT executive team including IT asset management, incident management, security policies and IT standards.

**Convergys** – developed and prototyped a rule based approach to the product line architecture of large scale, high performance billing systems on behalf of the VP of Product Line Architecture.

**Bailey Controls** – created and developed the advanced process control architecture utilizing mixed discrete and continuous computational models, and performed Real Time Object Orient Operating System design.

**ETAS** – designed and implemented J2ME demonstration of dynamic OSGi services for automotive telematics application into Microsoft IIS environment integrated with asp to servlet bidirectional communication.

**Boeing AWACS** - created new deployment architecture for future AWACS aircraft computer systems using blade servers, event based programming, and message driven architecture for more secure operation.

**Boeing PDM** – reviewed subsystems and researched new integration architectural patterns and platforms for large scale Product Data Management (25+ million BOM) as part of a large multi year program.

**Alltel Information Services** - created enterprise wide network computing security strategy covering network infrastructure, operating systems, application level security, and enterprise wide remote access.

## Technical Skills and Knowledge Used

### Systems and Software

- **UNIX/Linux:** Solaris, HP-UX, AIX, RedHat Linux, etc.
- **Windows:** Vista, XP, Server 2003
- **Virtualization:** VMWare
- **Persistence:** Oracle, SQL Server, LDAP
- **C family:** C, C++, Java, etc.
- **Scripts:** Bourne, PERL, CMD, etc
- **Other Languages:** Cobol, Fortran, PL/1, many assemblers
- **Web:** HTML, J2EE, XML, JavaScript, AJAX, Spring, Hessian, SOAP, etc.

### IT Methodologies

- **Techniques:** OOP/D/A, SOA, Component Based
- **Specification Tools:** Visio, UML Tools, LOTOS,
- **Protocols:** TCP/IP stack from network to applications levels
- **Project Management:** MS Project, PDF, P+
- **Architecture:** Enterprise, Application, and Infrastructure levels

### Information Security & Governance

- **IT Governance:** COBIT
- **IT Service Management:** ITIL
- **Process Maturity:** CMMI
- **Security Frameworks:** ISO 17799, NIST 800-xx Series
- **Risk Management:** NIST 800-30, AS/NZS 4260:199
- **Application Security:** SDL, ASF
- **Tools:** AppScan, ESM
- **Processes:** PPM and PM, CAB, SAR, Incident Response

## Additional Career Related Experience

<b>SHL Systemhouse:</b>	Senior Management Technical Consultant for Systems Integration
<b>GE Aircraft Engines:</b>	Senior Technical Analyst and Designer
<b>Alberta Research Council:</b>	Associate Research Officer, Senior Technical Analyst
<b>PetroCanada:</b>	Senior Technical Manager, Chief Programmer

## Personal

<b>International Experience:</b>	USA, Canada, France, Israel, New Zealand
<b>Citizenships:</b>	American and Canadian (dual)

## Education, Memberships, and Certifications

<b>Bachelor of Science:</b>	Computer Science Degree with Distinction from the University of Calgary
<b>Postgraduate training:</b>	Computer Science course work, University of Calgary and Carleton University
<b>Memberships:</b>	ISACA, (ISC) <sup>2</sup> , ACM, IEEE, Association of Certified Fraud Examiners, Microsoft Partner Program
<b>Professional Certifications:</b>	Certified Information System Security Professional (CISSP) Certified Information System Auditor (CISA) Certified ITIL and COBIT Foundations