

CURRICULUM VITAE

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Skills Summary

Capability	Comments
Developing Enterprise Architecture Structure	In several engagements, defined the structure and produced initial content of Enterprise Architecture. In one engagement I was involved in producing Enterprise Architecture from beginning to end.
Producing Business Architecture	In one engagement, I used Business Capability Modelling and Business Component Modelling to produce Business Architecture in Service-Oriented fashion. Also developed fragments of Business Architecture in more conventional way, as well as derived it from initial Process Models. I trained dozens of IT Professionals to capture Business Architecture.
Aligning Architecture with Enterprise Objectives	In several engagements used Business Motivation Model to capture Enterprise Goals, influencing factors, Strategies, Quantified Objectives etc. In one engagement led, and in several engagement taught formal mapping of Business Motivation Model to the elements of Enterprise Architecture, deriving a Heat Map and communicating it to senior executives.
Implementing and maintaining publication practices	Implemented continuous publication of models and specifications.
Developing policies and standards	Most of engagements included defining documentation and modelling standards. Also developed standards for Business Analysis and Solution Design, Service Design.
Involvement in ICT strategic planning	In various engagements, I contributed following elements to strategic plans: <ul style="list-style-type: none">• Business Motivation Model that captures the executive expectations of the organisation.• Heat Mapping, capturing the relationship between the key Goals and Objectives on one side and Processes and Applications on the other.• Modernisation Roadmap, a method of improving maintainability and usability of the key application (when exist).• Migration Strategy, outlining transition to new technology.

Capability	Comments
Optimising Application Architecture	Participated in Application Architecture Optimisation exercise while in Qantas, developed top layer of Process Red to formalise task and make it iterable. In several engagements, defined possible Applications Architecture transformations. Taught dozens of Architects to use modelling and quantitative assessments for Application Architecture optimisation.
Evaluating and adapting new technologies.	<p>My work with new technologies is split into two categories.</p> <ul style="list-style-type: none"> • As a new technology becomes available, I have to assess how it affects the way we develop solutions and Enterprise Architecture: Web Technologies, Integration technologies, Service-Oriented technologies, Cloud, new types of databases, Semantic technologies etc affect the way the solution must be designed, as old-style Functional Decompositions results in substandard and hugely expensive projects. I develop modelling and documentation standards that will enable the benefits the technology offers. • I also assess the impact of new technologies to existing Application Architectures - did this work for Service-Oriented, BPM and Semantic technologies.
Conceptual Information Modelling	Implemented Conceptual Information Models for Water Management and a fragment of Aviation. Mentored several Conceptual Information Modelling efforts. Taught Conceptual Information Modelling to dozens of IT Professionals.
System Engineering	Acted as a lead Architect for several major systems. Later trained System Designers and mentored the teams.
Application Modernisation	Defined and mentored Application Modernisation process for the key systems in one of the Federal Agencies - the project was then running for 3+ years according to my guidelines, and is hailed as success. Provided Application Modernisation guidelines to several other projects.
Communication with senior and C-Level executives	Worked with C-level executives to review and present the models of enterprise goals, strategies and capabilities. Communicated options and choices.
Leading teams of Architects	Lead a team of 2-4 Architects. Mentored teams of 10+ Architects.
Communicating ideas and principles to teams.	<p>As a trainer and external consultant, I need the ability to influence people who are not directly reporting to me. It is done by:</p> <ul style="list-style-type: none"> • thorough understanding the realities and motivations of the target teams and the stakeholders, • developing the recommendation to accommodate realities on the ground, • providing succinct and effective proof of the benefits of the solutions and standards I am recommending.
Capturing, understanding and managing Business Processes	In several engagements I defined process modelling framework and mentored process modellers. Led process definition exercises with consequent mapping, depending on the engagement, to Application or Service Architecture.
Applying and introducing conceptual thinking	I produce Conceptual Level specifications for every project or Architecture work I am involved in. It is in the very name of the company I created - Business Abstraction.

Capability	Comments
Defining strategy, applying strategic thinking	I include a Strategic Layer above the Conceptual Layer for all major projects and Enterprise Architecture work. Applying formal definitions for Goals, Objectives, Strategies etc, as well as refining the criteria of a Strategy using the leading sources on the subject, makes strategy clear and actionable.
Architectural Frameworks	In various engagements incorporated elements of Zachman and/or TOGAF into architectural standards and processes.

Domains

Domain	Comments
Insurance & finance	Worked in life insurance, managed investments, wholesale banking and institutional/government investment.
Defence	Mentored and closely advised two Defence projects. Hold current Security Clearance.
Government experience	Provided services to several Federal, State and Territorial agencies, being involved in strategic and business analysis.
Aviation	Work for two ears full-time for a major Australian carrier, been involved in projects in different areas of the company.
Utilities	Was engaged by a Gas transmission company and an Electricity retailer.

Tools

Software/ Category	Comments
Sparx Enterprise Architect	Arguably the best Enterprise Architect consultant in Australia, respected by Sparx Systems and Enterprise Architect enthusiasts. Developed various customisation and guidelines for
Protégé Ontology Modeller	Used Protégé to model complex Information Architecture in OWL.
Essential Architecture Modeller	On request of one of my clients, implemented Essential Architecture Modeller and produced several examples. Evaluated it ability to run a customised modelling framework.
Requirements Management Systems	On several occasions implemented RequisitePro, including setting up types, configuration and report generation, documented usage. Also worked with CaliberRM and RaQuest
Programming	Depending on needs, use C#, Java, Python, JavaScript, Prolog, HTML+CSS, XSD. Used other languages in the past.
Databases	Designed schemas and several Relational Databases (SQL Server, Access, Oracle, MySQL), Document & NoSQL Databases (MongoDB, Cassandra), Graph & RDF Databases (StarDog, piloting others).

Employment History:

12/2004 - Employer: Business Abstraction Pty Ltd

Present Role: Director, Principal Consultant

Business Abstraction is a training & consulting company specialising in Model-Driven approach to Enterprise, Business & Solution Architecture, and Solution Development. Business Abstraction differentiates itself from other training companies in the same field as being led by a practicing Architect capable of mentoring trainees in real projects. Classroom training, especially provided in-house, often includes working on projects the trainees are struggling with right now, with the Principal Consultant offering solutions utilising the methods learned during the course.

Since Business Abstraction inception, provided training and mentoring to hundreds of high-level IT professionals, as well as executed several longer engagement focused on driving challenging projects or delivering Enterprise Architecture.

List of clients includes: National Australian Bank, Commonwealth Bank of Australia, ANZ Bank, Australian Taxation Office, Department of Immigration and Citizenship, Department of Health, Department of Education, Employment and Workplace Relations, Australian Bureau of Statistics, Department of Education NSW, Department of Water, Land and Biodiversity SA, Queensland Treasury Corporation, Residential Tenancies Authority of QLD, APA Group, Media Monitors Group, ACT Government, CSC Australia, Defence Science and Technology Organisation and others.

6/2002 - Various Contracts

11/2004 Modelling & Requirements Management Tools Specialist

While building up Business Abstraction marketing and delivery capabilities, executed several short-term contracts with focus on implementing Visual Modelling and Requirements Management tools & practices. Clients included Sydney Water, Commonwealth Bank and a small company working on an Australian Taxation Office project.

7/2000
5/2002

– **Employer:** Qantas Airways Limited
Position: Rational Tools Implementation Manager

Description:

As part of the Qantas' Enterprise Architecture team, reporting directly to the company's Chief IT Architect, Alex was responsible for the introduction of Rational UML Modelling and Requirements Management tools, processes and methods to Qantas.

- Developing and implementing comprehensive enterprise-wide strategy of implementing Requirements & Solution Modelling in UML;
- Developing the Training Strategy; Monitoring and mentoring external Business Analysis & UML trainers and consultants;
- Facilitating development of a comprehensive Business Domain Model including Enterprise Data Model;
- Developing process definitions for SDM-RUP (RUP customisation for Qantas);
- Developed and implemented Process RED – a proprietary, highly cost-effective UML-based Business Analysis & Software Development method, that proved a preferred choice to several projects in Qantas
- Facilitated Business Analysis & UML Requirements Modelling workshops; Working with analysts and domain experts for individual projects; Mentoring team members in UML Use Case Modelling;

After Alex left Qantas, the company had to engage 2 Rational professional consultants full-time to cover part of his responsibilities related to SDM-RUP and tools.

1991-2000

Full-time Software Developer, Application Architect, Modelling Software Development Process guru

Worked for some of Australia's largest corporate IT shops, delivering Object Oriented solutions and championing leading edge methods:

1992-1993, AMP, OO Software Designer & Knowledge Inference

Expert: Took ownership overcritical core modules, corrected inconsistency, introduced formal OO methodology (Wirths-Brock).

1993-1994, Telstra International (from Open Telecommunication), OO Software Designer : implementing critical interfaces to distributed OO environment.

1995-1997, CSC/Continuum, AI Consultant: Championed Object-Oriented methodology, conducted Knowledge Engineering, designed major Rules-Based system.

1997-1999, GIO, Lead Application Architect and Chief Designer, AIA Project: Defined Application Architecture, mentored Designers, facilitated Analysis and Design workshops, customised Mentor methodology.

**1985 -
1990**

Junior Scientist, Institute for Informatics, USSR/Russia Academy of Sciences:

- Conducted research in Distributed Object Systems and Distributed Inference-based Systems;
- Led co-operation with SzKI Mprolog Team – implemented several modules, facilitated introduction of Logic Programming in academia and industry;
- Provided assistance in convergence on Intel 32-bit platform for R&D
- As a President of the Young Scientists Council promoted innovative projects and ideas generated by young (under 30) research & R&D staff.

Education:

1979 - 1985: B.Sc, M.Sc in Applied Mathematics, Moscow Institute for Electronic Machinery, Russia

1987 - 1991 Postgraduate degree in Computer Science, Institute for Informatics of the USSR Academy of Sciences.