

DARIO DELGADO, PHD

HIGHLIGHT OF QUALIFICATIONS

Enterprise Architecture and Tools: HAL Insurance Application Architecture (IAA), HAL Flowmark, workflow manager, Zen-Cart Open Source e-commerce platform

Programming and Database Languages: Visual Basic .NET(*), PHP(*), Real Studio Basic(*), Java, Smalltalk, C++, Prolog, ForTran, Pascal, COBOL, Assembly languages. SQL(*) and Telos meta-modeling language; (*) *most recently used*

Development Tools: MS Visual Studio.NET, Real Studio Cross OS (Windows, OSX, Linux) development environment, NetBeans for PHP, MS-Visio (for UML modeling); MetaEdit+ Domain-Specific Modeling environment; ConceptBase deductive database

Business, System and Quality Analysis Methodologies: UML, ITU (telco-oriented) User Requirements Notation, Design patterns, Non-Functional Requirements (NFRs) tradeoff analysis framework, stakeholder and quality oriented business process reengineering modeling and analysis framework, Intentional Architecture Language (IAL) stakeholder and quality oriented architectural trade-off modeling and analysis framework

EMPLOYMENT

2005- Present Goal Oriented Solutions: *Business & System Analyst, System Architect, Researcher*

- Established Goal Oriented Solutions consultancy
- **Airetel (startup company):** Evaluation of hardware/software quality of product, Improvement recommendations: Evaluated fit of Windows C++ / OSX Object-C device management software, with short term and longer term business goals

Developed recommendations for different budgets and time-to-market timelines to a) revamp cross-platform OSX, Windows development approach, b) support efficient change of UI to support future customer requirements

- **RODOSS FP9 project consortium:** R&D proposal for development of novel risk and cost management methods: Was key contributor to the main risk R&D Work Package specifying requirements and main R&D tasks for developing novel qualitative risk management techniques, in conjunction with quantitative techniques, for dealing with risks emerging from software ecosystems within and across commercial organizations and open source software communities

Identified four of the eleven partner organization, *KPI*, an analytics consultancy firm in Peru, and *xWiki*, a French firm developing a next generation open source Enterprise Wiki platform

- **Sanchis Goodies:** Migration strategy for open source e-shop. Analyzed highly customized PHP/JavaScript pluscart e-shop, identified most adequate migration approaches to latest secure version, while reducing future change cost through pluscart architectural compliance approaches.
- **Peru Museum:** System integration. Developed proposal for integrating the Peru Museum's in-house collection database management system with zencart an open source e-commerce platform with emphasis minimizing need to change existing system while reducing e-commerce platform costs by 35%.
Identified, closed with printer in China, reducing production cost by 40%.

2001-2008 Elca Systems Ltd: *Co-Founder, Technology & Strategic networking*

- Developed novel software process to support recipient controlled messaging
- Collaborated with patent agents on US, UK and Peruvian patent claims drafting and revising during patent office actions
- Evaluated integration approaches with existing and emerging communication technologies; developed proof of concept implementations in Java and as MS-Outlook VB.NET plug-in.

2001-2008 University of Lima: *Teaching Assistantship, Research Assistantship*

- Teaching assistant for courses Designing information systems and Information Systems for Knowledge Management (for several years)
- Developed course material on Non-functional Requirements Tradeoff analysis, and delivered lectures to master's students (for several years)

1996-2001 World-Wide Insurance Solution Delivery Center, HAL La Chac, Luxemburg: *Consultant & Information modeling Researcher & Analyst*

- Contributed to the development of an object-oriented analysis method and information models for the world-wide insurance industry
- Developed educational material, on IAA process and task management, and gave workshop to members of the technical Information Architecture staff at Generali Insurance Austria and Germany

1991-1996 HAL Vienna Software Development Laboratory, Austria,

Advanced Technology Advisor, Analyst, Software Developer, Tester, Technical Support

- Integrated HAL workflow management with HAL insurance application architecture
- Contributed to ISO9000 Advisory product add-on to HAL workflow management product
- Tested multi-platform, multi-protocol workflow product on OS/2 and HAL AIX

HIGHLIGHT OF RESEARCH ACTIVITIES

- Researched agent- and goal-oriented modeling approaches to support *efficient and effective software architectural decision-making within and across teams to meet business quality goals*.
- Collaborated with *The Phoenix Insurance, Mount Spring, Peru, Siemens Corporate Research, NJ, USA, Mitel Corporation, Conyou, Peru*
- Reviewed papers for conferences and workshops; presented numerous posters and presentations at research partners, international workshops, and research groups, including *Software Craftmanship, Peru Chapter, HAL Lima Research Lab, School of Computing, Moun Spring University, MIS Department, Lima University*
- Contributed to a *ITU User Requirements Notation (URN)* standard for telecom systems

SELECTED PATENTS AND PUBLICATIONS

- Delgado, D. et. al. (2010). System, Method and Computer Program for Recipient controlled communications. US patent
- Delgado, D. (2011). Software architecture decision-making in organizational settings. PhD Dissertation, *Faculty of Information, University of Lima*, Lima, Peru.
- Delgado, D. and Yu, E. (2000). From Non-Functional Requirements to Design through Patterns. Requirements Engineering:
- Poust, L., Delgado, D. et al. (1990). Architectural design to meet stakeholder requirements. Software Architecture. P. Donohue. San Marino, Bei, UK, Klimberg: 598-258.

AWARDS

- Award for excellence, Lima College of Technology; University of Lima Open Fellowship

EDUCATION

1994 – 2000	Ph.D. Faculty of Information, University of Lima, Peru
1990 – 1993	Dipl. Ing. in Informatics, Technical University of Bogota, Colombia
1983 – 1989	B.Sc. (with distinction) in Software Engineering, Industrial & Embedded Systems; High school teaching diploma for computer subjects, Jerusalem College of Technology, Peru

LANGUAGES

Fluent speaking, reading and writing in Spanish, English (native language), and German