
Name: Dr. Stefanos Zachariadis
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Selected Professional Experience

CONSULTANT, Zühlke Engineering: May 2006 - Present Date

Architect for leading turbine manufacturer : Team lead and technical architect in a project rewriting a tool for designing impulse steam turbines for a leading manufacturer of power plants. Current approach involves a repetitive and inefficient workflow using a large connection of disconnected tools, some more than 40 years old. I am architecting and leading the team that is developing a new steam turbine design tool, that will integrate and replace the existing toolset, and unify and improve the workflow involved. My tasks include interfacing with engineers, balancing stakeholders, defining the integration architecture, implementation, performing user interviews, and enforcing an agile development lifecycle. **Technologies:** Eclipse RCP, Fortran, C, Excel.

Architect for leading asset manager : Technical & organisational evaluation of legacy trade-confirmation system, handling trades in all asset classes for a major global asset management house. Was processing 4000 trades an hour and needed to process 40000. Project suffered from long release cycles and repeated unplanned rework. My tasks included: analysing architecture for performance and scalability, obtaining and interpreting performance metrics, evaluating legacy code, determining limiting factors and developing options for re-engineering. I reviewed requirements and team structure, examined development and testing practices and delivered recommendations for improvements. **Technologies:** Java, C, C++, Sybase, MQ.

Lead agile developer for top British airline : Client required a new SOA based architecture to parameterise its flight searching and selling abilities, as part of a major overhaul of its infrastructure. My tasks included Interaction with business, requirements gathering and coding. I introduced agile processes, test driven development, designed the architecture and lead the team. **Technologies:** Java, Spring, Spring-MVC, Spring-WS, Weblogic, Oracle, Agile, SOA, TDD, XML, SOAP, Aqualogic.

Lead developer for major investment bank : Supported the development of a multi million line of code trading software system, with hundreds of developers spread over 4 continents. I wrote custom software to support the distributed development life cycle (including mandatory distributed code reviews, a task based approach to development and a branch per task strategy) as a set of Eclipse plugins with a ClearCase backend. I wrote customised infrastructure to run all tests (in Groovy) which cut the testing time by half. I developed other infrastructure to support the project, including a servlet-based configuration generation and deployment tool, launchers which allowed all developers to run and debug server processes on their machines, regression testing infrastructure, etc. **Technologies:** Java, Eclipse RCP, XML, Groovy, ClearCase, Maven, Ant.

Trainer : Design and development of Zuhlke's RCP platform training course. Primary instructor for course delivery.

CONSULTANT, IABG / The European Space Agency (via UCL Consulting): February 2005 - July 2005

Responsibilities : Consulting on the integration of software developed during my PhD studies (SATIN) with programmable satellite networks; the development of media transcoding and intelligent packet dropping in particular.

Education

PHILOSOPHY DOCTORATE IN COMPUTER SCIENCE, September 2001 - May 2005
DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY COLLEGE LONDON

PhD Thesis: *Adapting Mobile Systems Using Logical Mobility Primitives*

Supervisors: Dr. Cecilia Mascolo & Prof. Wolfgang Emmerich

Fully sponsored by the Engineering and Physical Sciences Research Council of the United Kingdom.

Available online at

<http://zachariadis.net/papers/stefanos.zachariadis-phd-thesis.pdf>.

1ST CLASS HONOURS BSC IN COMPUTER SCIENCE, 1998 - 2001
DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY COLLEGE LONDON

Final Year Project: *Implementing XMIDDLE, an XML-based Platform for Mobile Computing and Ad-Hoc Networking*

Supervisor: Dr. Cecilia Mascolo

Awarded the Praxis Award in Computer Science (Best project of the year).

Other Qualifications, Achievements and Abilities

Finalist in the Set for Britain / Europe parliamentary competition for best new engineering research

An adaptable middleware system for sensor networks that I developed (based on work on my PhD thesis) is shipped as a standard part of the Contiki operating system for memory constrained systems (Telos motes port)

Certifications: Sun Certified Enterprise Architect (SCEA) , Sun Certified Java Programmer for Java 5 (SCJP5 Scored 91%), Sun Certified Mobile Application Developer (SCMAD Scored 85%)

TECHNICAL SKILLS:

- **Programming Languages:** Proficient in Java (J2SE, J2ME, J2EE), Python, C, PHP, Groovy, Javascript, Bash, Pascal, Basic, some C#, C++, Erlang, Cocoa/Objective C, Perl and others
- **Specialised Knowledge:** Embedded systems and mobile computing (limited resources) systems development, Eclipse RCP/plugin development, OSGi, PalmOS, Unix (Linux), Agile, TDD, and Mote/ Sensor (Contiki / TinyOS) Programming, Spring, Test Automation, Fit/FitNesse, Unix Administration, Lifecycle support, Ant, CruiseControl, ORM, Web Services (SOAP / REST), SCM systems (Subversion, MKS, ClearCase, CVS), AJAX and others
- **Data Processing and Representation:** SQL, XML, HTML
- **GUI Programming:** Swing, GTK+, AWT, SWT, JFace, some Cocoa/Interface Builder

LANGUAGES: native Greek, fluent English, advanced French (French Institute Delf A1-A6), some German and Spanish

Selected Publications

- S. Zachariadis, C. Mascolo and W. Emmerich. *The SATIN Component System - A Meta Model For Engineering Adaptable Mobile Systems*. In IEEE Transactions on Software Engineering (TSE), 32(11):910-927.
- L. Sacks, H.K. Sellappan, S. Zachariadis, S. Bhatti, P. Kirstein, W. Fritsche, G. Gessler and K. Mayer. *On the Manipulation of JPEG2000, In-Flight Using Active Components on Next Generation Satellites*. In Seventh Annual International Working Conference on Active and Programmable Networks (IWAN05). November 2005, La Cote d'Azur, France.
- C. Mascolo, L. Capra, S. Zachariadis and W. Emmerich. *XMIDDLE: A Data-Sharing Middleware for Mobile Computing*. In Personal and Wireless Communications Journal, Kluwer. April 2002.