Laurent BADUEL

French, 34 years old: born on January 6th, 1979

27 rue Nelson Mandela,

64000 Pau, FRANCE

E-mail: laurent.baduel@gmail.com

Phone: +33 (0) 6 4555 6190

Web page: http://laurent.baduel.free.fr

Occupation

Project Manager in Scientific Computing and Application Development

Skills

IT Project Management: Software development methods (V-cycle, agile), Interface between scientists and development team, Gathering of requirements, Implementing IT strategy, Coordination of technical realizations, Evolutions & optimization, Reporting, Quality and cost control, Documentation.

Languages: Java, C/C++, FORTRAN, VBA, Unix shells, SQL

Development & Collaborative Tools: Eclipse, NetBeans, Visual Studio, CVS, Subversion

Information dissemination: Redaction (and peer-reviewing) of scientific articles, deliverables for projects, patents, software documentation and manuals.

Experiences

2010 – …   IT **Project Manager**

Total − Scientific & Technical Center, France
- Geosciences applications
- Project management (estimate, plan, decide, report, control)
- Wide language and technology area (Java, C, FORTRAN, C#, Oracle, PostgreSQL, etc.)
- IT product manager

2008 – 09   **Researcher Engineer**

IBM Tokyo Research Laboratory, Japan
- Business Service Research (Global Technology Services, Cloud Computing)
- Prototyping workflow engine extension in Tivoli Asset Management product
- Integration with cloud provisioning software

2005 – 08   **Associate Researcher**

Tokyo Institute of Technology, Satoshi Matsuoka's lab, Japan
- Conception, development, and evaluation of a grid monitoring system
- Peer-to-peer networking (Jxta), "Directed" Gossip protocols
- Autonomic Computing

2001 – 04   **Junior Researcher**

University of Nice Sophia-Antipolis / National Institute of Computer Science (INRIA), France
- Java grid middleware: *ProActive*   and   3D Maxwell equations solver: *Jem3D*

Education

2001 – 05	**Ph.D in Computer Science: "Typed Groups for the Grid"**
	University of Nice Sophia-Antipolis / National Institute of Computer Science (INRIA)
2000 – 01	**Master in Computer Science: Networks and Distributed Systems**
	University of Nice Sophia-Antipolis

Internships

2001	**National Institute of Computer Science (INRIA)**, in Sophia-Antipolis, France
6 months	Group Communication for Mobile Active Objects
2000	**ALCATEL Space Industries**, in Mandelieu, France
4 months	Logs Gathering and Analysis on Multi-Processors Computers

Professional Activities

As a **Project Manager in Total**, I lead the development of geosciences applications. I define IT project requirements, write specifications, estimate cost, supervise realization, supervise and report progress in terms of quality, expense, and planning. My position requires understanding of geophysics, geology, and reservoir engineering, along with team work and management.

My projects involve 3 to 4 developers for a period going from 6 months to 3 years. Most of them are developed by contractors; critical ones involving strategic technological assets are internally developed. I participate to writing, evaluating, and checking compliance of IT consulting contracts.

As a **Research Engineer in IBM**, my role was to design and build the advanced technology of systems management software for distributed and federated computing environment such as data centers, in particular clouds. My tasks were:

• to survey the systems management research and propose an innovative method,

• to develop a software asset to transfer to IBM business unit (Tivoli Asset Management group),

• to file patents and publish academic papers on the premier journal.

As an **Associate Researcher in the Tokyo Institute of Technology**, I developed a monitoring tool for large scale and heterogeneous computing environments (grids). My solution was based on peer-to-peer technology and Autonomic Computing concepts.

As a **Junior Researcher** and a **Research Assistant in the (French) National Institute of Computer Science**, I participated to the development of *ProActive*, a Java middleware for distributed and parallel computing. I designed and implemented the group communication framework. With physicists, I co-developed a numerical simulation of electromagnetic waves propagation.

Publications & Teaching

• More than 20 scientific publications, patents, and software manuals

• 8 years teaching computer science from undergraduate to master degree and continued education

Languages

French: mother tongue   **English**: fluent   **Japanese**: intermediate   **Spanish**: basics