Giovanna Petrone

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🔴 SUMMARY

Extensive international experience as a software engineer and architect. First-line responsibility in the development of the technical and marketing phases of a leading CASE product for a startup, as well as managing large product offerings for Sun Microsystem and DEC. Major fields of activity: Multi-agent systems, Web Services, Web-based architectures, Object-Oriented Programming and Design, Multimedia, Document Publishing Tools, CASE Tools, Programming Environments and Compilers, User Interfaces, Expert Systems.

🔴 EMPLOYMENT

1997-now	**Computer Science Department, University of Torino, Italy** Assistant professor at the Computer Science Department working with the ``Intelligent User Interfaces'' group. Current reasearch activities include defining a conversational model for Web services, aimed at supporting complex interactions, where several messages have to be exchanged before the service is completed, and the conversation may evolve in different ways, depending on the state and the needs of the two participants. Member of the programm commette of the workshop Web Services and Agent-Based Engineering (WSABE) to be held at the The Third International Joint Conference on Autonomous Agents & Multi-Agent Systems (AAMAS 2004). *July 2000- June 2003* Responsible for the development of an adaptive Web personalized configuration system, within a two and a half years project funded by the European Comunity. Designed our contribution to the project using the J2EE architecture. *March 2000- June 2000* Consultant for **Telesoft S.p.a.** to design a large Web-based system for Customer Care, within the TELECOM offer to business customer, using UML and the J2EE, the Enterprise Java Beans architecture. *March 1997- April 2000* Technical Leader responsible for the technical development of an adaptive Web store system, within a three years project funded by Telecom Italia. Definition of a multi-agent system framework to develop Web-based adaptive stores. Designed the software architecture of the system as an N-tiers architecture, using Java and Object Oriented Design techniques.
1994-1996	**Sun Microsystem Corp., Mountain View, CA** Engineering Manager responsible for the development and release of the Windows software for the Sun Solaris workstations. Cooperated with the X Consortium on the design and development of the new features of the X Server R11R6. Later managed also the XIL development group to include the X-based Imagining library within Solaris 6.0.
1993-1994	**Frame Technology Corp., San Jose, CA** X Development Manager Initially responsible for the development of the FrameMaker' s user interface X Window/Motif based on Sun workstation. Drove the introduction of Object-Oriented methodologies, and the transition to C++. Taught an in-house course on these technologies. Later managed about 18 software engineers and a couple of managers, including the X development group, the Unix porting, Release Engineering and QA groups. Responsible for scheduling, staffing, defining features for all of Frame's Unix-based products. Reported directly to the VP of Development. Responsible for the OEM ports contracts of Frame products, including

managing all the execution phases.

1991-1993   **Western Software Lab, Digital Equipment Corp., Palo Alto, CA**

June 1992- February 1993 Multimedia Server Project Leader Manage a team of senior software professionals. Responsibilities include driving the development of schedules, setting of goals, establishing methodologies, and tracking progress of the multimedia server development. Collaborated on the design and development of the audio-video server using Object-Oriented methodologies, in C++.

November 1991- June 1992 Project Manager, Workstation Software Responsible for coordinating Release Engineering, Quality Assurance, Documentation, and Development teams for Workstation Software. This included defining schedules and contents of the X servers, toolkits, and applications for DEC OSF/1 for MIPS architecture. Matrixed responsibility over 35 people on both East and West coasts. Collaborated with the Operating System Project Management.

1988-1991   **L.P.S. srl, Torino, Italy**

Project Manager, Member of the top management team at LPS, a small software company producing KeyOne, a CASE tool. Responsible for marketing, support, and setting technical direction for KeyOne. Designed and implemented a configuration management system for development and delivery of LPS products. Represented LPS at many trade shows, and taught classes on CASE, Programming Methodology, Object-Oriented Programming, and Software Engineering. Took part in the implementation of the C/Unix, and X window-based versions of KeyOne. Coordinated the parallel development of the product across various Operating Systems and hardware platforms, including: Unix, OS/2, VMS, and MS-DOS, on Apollo, SUN, DEC, Bull and other hardware. Responsible for managing the maintenance of the hardware and networking environment for the company.

1983-1988   **Olivetti Advanced Technology Center, Inc., Cupertino, CA e Olivetti, S.p.A.,Ivrea, Italy**

February 1988- June 1988 Tool Expert, Artificial Intelligence Center Responsible for technical direction and implementation of a joint project between Banco di Napoli and Olivetti, to develop an Expert System for evaluation of business loans.

January 1986- February 1988 Senior Software Engineer, Artificial Intelligence Center Project Leader in the design and development of a state-of-the-art Expert System Shell, implemented in Smalltalk. The system, Plato, featured forward and backward chaining, procedural attachment, and uncertainty.

May 1985-December 1985 e May 1987-August 1987 **Visiting Scholar Stanford University**, Stanford CA Participated in the development of an Intelligent Decision Support System, AIDA, combining AI techniques (expert systems) and Decision Analysis (Influence Diagrams Theory). AIDA provides deterministic and probabilistic decision analysis, together with a model of risk assessment.

August 1983- May 1985 Software Engineer, Language and Compiler, Ivrea Implemented a Pascal code generator for the Motorola 68020, in C, under Unix.

EDUCATION

July 95- August 95 Dale Carnegie Presentation skills training, Palo Alto, California.

July 92- August 92 Management and Supervisory Training Program, Joanne Snow & Associates, Sunnyvale, Ca.

October 78- March 83 **University of Turin**, Italy, Laurea with honors (equivalent to a Master Degree) in Computer Science.

TEACHING

University

- 2005-2006
  - *Web Technologies*, Corso di Laurea Interfacoltà in Management dell'Informazione e della Comunicazione Aziendale.
  - *Developing software using components*, at the Computer Science Department, Universita' di Torino.
  - *Programming course I* at the Computer Science Department, Universita' di Torino
- 2004-2005
  - *Advanced Database lab*, at the Computer Science Department, Universita' di Torino.
  - *Web Technologies*, Corso di Laurea Interfacoltà in Management dell'Informazione e della Comunicazione Aziendale.
  - *Developing software using components*, at the Computer Science Department, Universita' di Torino.
  - *Programming I, lab*, at the Computer Science Department, Universita' di Torino
  - *Software Engineering*, at the Universita' del Piemonte Orientale, Alessandria.
- 2003-2004
  - *Advanced Database lab*, at the Computer Science Department, Universita' di Torino.
  - *Software Engineering*, as Contract Professor at the Universita' del Piemonte Orientale, Alessandria.
  - **La pubblicazione on-line: progettazione e costruzione di siti Web** ,*Master in Editoria Libraria e Multimediale, Torino.*
- 2002-2003
  - *Project Management*, as Contract Professor at the Free University of Bolzano.
  - *Man Machine Interaction* , as Contract Professor at the Free University of Bolzano.

  - Taught a graduate course in Software Engineering and Object-Oriented Programming at the Politecnico di Torino, June-July, 1989.
  - Taught, as contract professor, a graduate course in Object-Oriented Programming and Smalltalk at the Department of Computer Science, University of Turin, March-April, 1991 and May 92.

Past teaching experience in the Industry

- Seminars of CASE Tools at the University of Torino, and Istituto Ghiglieno (Ivrea), May and June.
- Taught a course in Object-Oriented Programming and Smalltalk at DEC Western Software Laboratories of Palo Alto, June 92.

PUBLICATIONS

Conference/workshop Program Committees:

Web Services and Agent-Based Engineering (WSABE) to be held at the The Third International Joint Conference on Autonomous Agents & Multi-Agent Systems (AAMAS 2004)

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