

Personal data Fabrizio Perin

*Born in Sesto San Giovanni (Milano) on April 9th, 1981.
Nationality: Italian.*

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Current position **1st October 2008 - today** *PhD researcher at the Software Composition Group of the University of Bern.*

1st October 2007 - 20th September 2008 *I worked for the "Beta80 Group" software house. My first assignment was the development of new functionality of software produced by the company. I was involved also in functionality testing and test design.*

Degree **April 2007**, *Master degree (Laurea Specialistica) in Computer Science at the Dipartimento di Informatica DISCo, Università degli Studi di Milano Bicocca, Milan; final mark: 109/110;*

October 2004, *Bachelor Degree (Laurea Triennale) in Computer Science at the Dipartimento di Informatica DISCo, Università degli Studi di Milano Bicocca, Milan; final mark: 89/110;*

July 2000, *High School (Perito in elettronica e telecomunicazioni), at the Istituto Tecnico "Cartesio", Cinisello Balsamo (MI); final mark: 71/100.*

Education **Advanced courses attended:**
Databases, Data Warehouses, Software Engineering, Reverse Engineering, Human-Computer Interaction, Software Quality Control, Informatics Systems Security, Numerical Analysis, Bio-Informatics

IT knowledge **Operating systems:** MS Windows (expert), Linux/Unix (basic), MAC-OS (basic).

Programming Languages: Java (expert), Python (good), C, Assembler Z80, Assembler MIPS, smalltalk (basic).

Other: Latex, SQL (good), HTML, XML, XSL, Unix scripting languages (SH/BASH) (basic). Small experience with Oracle, SQLServer and MySql.

Misc Apps: General office software (Open Office, MS Office), data base management application (TOAD for Oracle, SQL Server 2005 Express), IDE Applications (Visual Studio, Eclipse), CVS.

Hardware knowledge **IT hardware** good knowledge of computer components, experience in assembling/disassembling computer parts (system building for private use).

Languages Italian (mother tongue),

English

Personal interests & attitudes

Personal Interests

My interests range from music to cinematography to literature. I like Italian and foreign classical literature. I mostly listen to classical music, jazz, blues and heavy metal. I've practiced several sports in the past years: swimming, judo, volley ball, athletics, but never with a professional approach.

Working attitude

I have attitude towards both individual and group work: I believe that sharing experiences with colleagues is important to build synergy in the work group.

Undergraduate research

2007: Master thesis in Computer Science

Title: Dynamic analysis for Design Pattern detection in Java: Information collected using JPDA

Summary: My thesis work objective was the creation of a design pattern detector for Java code. The work consisted in three distinct sections: (i) study and implementation of the design pattern "behavioral"; (ii) development of a set of rules for "behavioral" pattern identification, based on both its static and dynamic characteristics; (iii) development of a tool for pattern identification based on the obtained rules, JADEPT (JAVa Design Pattern deTector). Dynamic information was gathered during software execution through the JPDA (Java Platform Debugger Architecture).

2004: Bachelor thesis in Computer Science

Title: XML INSERTION TOOL: Database administration tools for the O₂I portal knowledge base.

Summary: *This thesis work objective was the creation of a tool to upload and update information on a database to be used for the O₂I (Oncology Over Internet) portal knowledge base. The software, named "XML Insertion Tool (XIT)", was based on a dynamic HTML web interface controlling a java-servlet-based engine. XIT generated XML files were then used by a dedicated database management software to finalize modifications on the actual database.*

- Research Interests**
- *Reverse engineering*
 - *design pattern recognition*
 - *dynamical software analysis*
 - *Software quality control*

- Publications**
1. *Francesca Arcelli, Fabrizio Perin, Claudia Raibulet, Stefano Ravani. "Behavioral Design Pattern Detection through Dynamic Analysis". Proceedings of the 4th International Workshop on Program Comprehension through Dynamic Analysis (PCODA'08)*