

D A R I O S I M O N E T T I

Personal details

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Education: **Bachelor of Science SUPSI in Computer Science, September 2010**
SUPSI Department of Technology, Manno, Switzerland
SUPSI is a university of applied sciences and the Bachelor of Science in Computer Science focused mainly on software development and software engineering.
Grade point average: 93.6%

Experience: **Main projects during the Bachelors degree, September 2007 to September 2010, SUPSI, Manno, Switzerland**

- Creation of software for the graphical representation of data received through serial port. The data is originally transmitted from a BalloonSat and could be position data (such as GPS coordinates, speed etc.) or atmospheric data (such as temperature, pressure etc.). The software is able to personalize the visualization of the data through more charts where the X and Y axis can be chosen (as well as the color, the style etc.). Implied technologies: C++, Qt framework, multi-threading, events and signals, UML, unit testing
- Development of a software for the resolution (with graphical visualization) of the Travel Salesman Person (TSP) using constructive algorithms (Nearest-Neighbor, Multiple-Fragment, Nearest-Addition), local optimization algorithms (2-opt, 2.5-opt, 3-opt) and meta-heuristic algorithms (Simulated Annealing, Ant Colony System). Implied technologies: C++, Qt framework, multi-threading, events and signals, UML, unit testing
- Creation of software for the visualization of an inverted pendulum in 3D. The data (position of the cart and angle of the pendulum) is received through the network (UDP/IP). Implied technologies: OpenGL, C++, Qt framework, multi-threading, events and signals, sockets, UML, unit testing
- Implementation of a ring buffer so that a producer reads images from the hard disk drive at a configurable speed x, while the consumer visualize them at GUI level at configurable speed y. Implied technologies: C++, Qt framework, multi-threading, events and signals, UML, unit testing
- Development of an Assembly program for a Microchip PIC16F87X able to receive characters from the serial port, manage them and send back to the terminal

Software engineer, June 2009 to July 2009, Schindler Elettronica SA, Locarno, Switzerland

Refactoring of the software of the BIONIC elevator series of Schindler Elevators, reducing dependencies between classes. BIONIC series is always used when there are at most two elevators working together. Implied technologies: C++, Design Patterns, UML.

Software developer, June 2008 to July 2008, Schindler Elettronica SA, Locarno, Switzerland

Creation of a website for the management of usecase documents. The website is now being used by the R&D department. Implied technologies: HTML, CSS, Ajax, JavaScript, XML, VB.NET.

Apprenticeship as computer scientist (spec. in applications), September 2003 to August 2007, Schindler Elettronica SA, Locarno, Switzerland

- Development of software for changing the parameters of Schindler software acting on the Windows register. Implied technologies: Java, Java UI (Swing)
- Creation of software for the personalization of audio ads used when the elevator reaches a floor. Conversion of any WAV audio file to MP3 audio file with a specific bitrate. Implied technologies: Java, Java UI (Swing)
- Development of software for the interpretation and graphical visualization of a log file. The software is able to read an elevator log file and reproduce graphically its movements (as well as doors, lights, buttons etc.). Implied technologies: Java, Java UI (Swing), UML. Award: Best LPI (individual productive project) in Informatics in Switzerland, chosen from about 1,800 other LPis

Software development skills:

- Programming: Java, C++, Qt framework, C, OpenGL, ADA, Perl
- Software engineering: UML, design patterns, unit test, refactoring, continuous integration, software life cycle
- Web: PHP, JavaScript, HTML, XHTML, XML, Ajax, CSS
- Database: E-R models, SQL, Oracle, MySQL

Language:

- Fluent in Italian
- Good proficiency in English
- Moderate proficiency in French
- Basic proficiency in German

Achievements:

- 10/2007, I-CH: Best LPI (individual productive project) in Informatics in Switzerland, chosen from about 1,800 other LPis
- 11/2007, AMETI: Achieved best average for final exams of the apprenticeship in the computer science