



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **MATTIA SANGUIN**  
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Nationality Italian  
Date of birth 1 Sep 1984  
Gender Male

**Personal Interests** Open to work on all the research fields, particular interest in new technologies and innovation.

### Work experience

Dates 2003  
Occupation or position held Stage  
Main activities and responsibilities Human resources management, Web pages development  
Name and address of employer Altevie Technologies  
Type of business or sector ICT – MS and SAP technologies  
Dates 2004  
Occupation or position held Stage  
Main activities and responsibilities Web site development  
Name and address of employer ICM.S  
Type of business or sector ICT – SAP ERP Implementator

### Education and training

Dates Since September 2007 to June 2008  
Title of qualification awarded Master Degree in Computer Science  
Principal subjects/occupational skills covered One year (the second) in University of Aberdeen as an Exchange student ( Erasmus programme); Profitable courses, workshops and projects in Communication skills, Project Management, Enterprise Computing, Computer Graphics, Artificial Intelligence, Natural Language Processing.  
Name and type of organisation providing education and training University of Aberdeen (UK)  
Dates 2006-2008  
Title of qualification awarded A second level graduation degree in Ingegneria Informatica, equivalent to a Master Degree in Computer Science  
Principal subjects/occupational skills covered A two years specialization course after the base graduation in Ingegneria Informatica. The first year spent in Padova for advanced studies in computer science, programming languages and communication standards and protocols and the second year still in progress in Aberdeen (UK).

Name and type of organisation providing education and training	University of Padua
Level in national or international classification	Actual average of 28.8 over 30.
Dates	2003-2006
Title of qualification awarded	First level degree in Ingegneria Informatica, equivalent to a Bachelor Degree in Computer Engineering
Principal subjects/occupational skills covered	Advanced knowledge in mathematics and physics. Basic knowledge in economics and in enterprise organization. Global knowledge in Information and Communication Technologies.
Name and type of organisation providing education and training	University of Padua
Level in national or international classification	106/110
Dates	1998-2003
Title of qualification awarded	Scientific High School Diploma
Name and type of organisation providing education and training	Liceo Scientifico "Leonardo Da Vinci", Treviso
Level in national or international classification	90/100

**Personal skills and competences**

Mother tongue(s) **Italian**

Other language(s)

Self-assessment  
*European level (\*)*

**English**

**French**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
Proficiency	Mastery	Proficiency	Proficiency	Proficiency
Preliminary	Intermediate	Breakthrough	Breakthrough	Breakthrough

(\*) *Common European Framework of Reference for Languages*

Social skills and attitudes Good attitude for teamwork. Generous and highly reliable. Appreciated by friends and colleagues.

Organisational skills and competences Planning, organization and teamwork skills developed during the projects listed below. Basic courses in organization and communication.

## Technical skills and competences

Courses covered in the university courses:

First year

- Maths A: foundations of mathematical analysis
- Foundations of computing science: in particular Java programming.
- Maths B: Algebra mathematics
- Physics 1: dynamics.
- Maths D: combinatorial computation.
- Physics 2: thermodynamics.
- Circuits and logic systems: logic circuits.

Second year

- Foundations of electrical engineering.
- Signals and systems
- Foundations of Electronics
- Data and algorithms 1: general data structures and algorithms. Project: java implementation of pattern matching algorithms.
- Foundations of Automation
- Foundations of Communication
- Architecture of computers
- English test

Third year

- Operating systems
- Database
- Operational research 1: overview on various NP-hard problems and techniques of optimization.
- Data and algorithms 2
- Economics 1: basics on economics themes and balance sheet.
- Network of computers: TCP/IP protocols and various network issues.
- Economics 2: information oriented, intellectual properties, etc.
- Final bachelor project: C program for managing the flight of the rocket of the university project 'Stratosphere' (security and real time data acquisition from many sources).

Fourth year

- Numerical analysis. Overview on methods of numerical solution of problems. Project: test of algorithms on sparse matrices.
- Electronic measurements
- Information Retrieval. Overview on the main techniques and models for IR. Project: analysis of a Desktop Search tool.
- Web Technology: HTML, XHTML, overview on semantic web.
- Theoretical computing science: automata theory.
- Parallel computing. Overview on methods and algorithms. Project: implementation and analysis of a simple algorithm for matrix multiplication.
- Protocols for data transmission and multimedia communications. Various protocols for data compression (as MPEG, JPEG, MP3,...) and various protocols for network communication (TCP,UDP,...). Project: C program for a security system using webcams (acquisition and image processing for motion detection)

Fifth year (University of Aberdeen)

- Natural language processing. Overview on Natural Language Understanding, Machine Translation, Natural Language Generation. Project: Java program for classifying documents by topic using statistic models.
- Artificial intelligence. Overview on all the basics themes of AI, as Search, Game playing, Planning, Machine learning. Project: Java GUI with a CLIPS rule based engine behind for a specific problem.
- Graphics: Overview on OpenGL and Java3D. Project: Java3D and OpenGL implementation of specific scenes.
- Signal processing
- Human computer interaction: Techniques for designing, evaluating and improving a user interface. Project: design and testing of a web user interface.
- Enterprise computing. J2EE and .NET, ERP systems, XML. Project: Application for selling wine online, client side in Java and JSP using J2EE, business side in C# and ASP in .NET.
- Economics and safety management: fundamentals of economics and finance, communication skills and leadership, team management.
- Engineering project and manufacturing management. Project: software project management using Microsoft Project.

Computer skills and competences	<p>Programming Languages: Java, C/C++, C#, (X)HTML, CSS, XML, PHP, SQL, and many more less languages.</p> <p>Operating Systems: Windows, Linux.</p> <p>Skills: General purpose application developing, Web application developing, computer graphics and animations, artificial intelligence and planning systems, natural language processing tools, database management. Personal project experience in computer game developing using head-tracking hardware and physics engine.</p>
Other skills and hobbies	<p>Rocket design and realization in a friends' team and in a University team.</p> <p>Plays guitar, loves astronomy.</p> <p>Sport passions: Basketball, Climbing, ski and snowboard, wind and kite surf, kick boxing.</p>
Driving licence	Car driving licence (B)