

Marco Fontana

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Education

• December 2014 **Poli.design of Milan (Politecnico di Milano) (Italy)**
Rhino Fundamental Course (48h.)

• June 2014 **University of Pavia "Alma Mather Studiorum" (Italy)**
Part III Engineering

• September 2012 – October 2013 **University of Westminster (England)**

Post-graduate Diploma in Urban Design

➤ **Relevant modules:** Urban design skills, Master planning, Public Realm and others.

• April 2012 – June 2012 **University of Westminster (England)**

Academic IELTS & General English course

• October 2011 – May 2012 **Callan school course of general English (England)**

• October 2003 – September 2011 **University of Pavia "Alma Mather Studiorum" (Italy)**

Graduated in a Master degree course in Engineering and Architecture

➤ **Relevant modules:** Architectural composition, Landscape design, Urban planning, Structural calculation and sizing, Sizing of civil systems (lighting, acoustics, thermal insulation, humidity, heat exchangers), Mathematical analysis, Site management, Economy, Architectural history, Integration of alternative energy technologies, Hand drawing and drawing with information technologies.

➤ **Final year: Degree thesis title:** "Mathematical modelling of shapes for urban-landscape renewal of an area in a developing country, researching the causes of the shape through scientific considerations".

➤ **Competitions:**

➤ **June 2011: Competition for students on the façade's reconstruction of engineering pole at the University of Pavia (Italy)**

✓ This was an open competition with Tongji university of Shanghai, Escuela politecnica de Madrid and university of Pavia and my project was amongst the ones that received an honorable mention.

➤ **October 2010 – September 2011: Degree thesis carried out in Rio de Janeiro (Brazil)**

✓ I did my degree thesis in Rio de Janeiro and in that period I had contacts with Brazilian institutions and with UFRJ in order to gather material and develop my thesis.

➤ **October 2008: I organised a show of architectural projects made by the students of architecture from the University of Pavia and Politecnico di Milano (Italy)**

✓ In that show, the projects (the most innovative in shape, technologies and concepts) of the students were shown to people who are not familiar with new discoveries in order to arouse enthusiasm towards awareness of aesthetics and energetic problems.

➤ **September 2008 – July 2009: Competition for urban renewal and redefinition of public spaces of Torrevecchia-Pia (Italy)**

✓ In this competition, I was in a group with students from Madrid and Italy and we reached the fifth position.

➤ **September 2007 – June 2008: Landscape design Competition for the park of Lambretta (Italy)**

- ✓ This competition was on an international level and I was in a group with a student from Madrid and we reached the eighth position.

- **September 1998 – July 2003** **High school: Liceo Classico San Giorgio (Italy)**
 - ✓ **Subjects included:** English grammar and literature, Latin grammar and literature, Old Greek grammar and literature, Mathematics, Philosophy, Italian grammar and literature and others.
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Technical skills

- **IT Skills:** Good Knowledge: Word, Excel (I created software for sizing structural beams and for calculating the thermal transmission of a wall), PowerPoint, Windows, Mac Os, Pages, Keynotes, Numbers, Autocad 2D and 3D, Photoshop, Sketch up, Telaio 2D (open source program for the resolution of two-dimensional frames), Trave conDwg 7.1 (open source program for the resolution of multi-span beams), 3D studio max, Archicad, Rhino, Blender, Cura, 3D printing.
- **Language Skills:** English (fluent), Italian (native), Portuguese (basic), Spanish (basic), French (basic).

Articles

- **Probable publication July 2016 (USA):** I wrote an article about the research method that was carried out in my thesis for the publication on “Journal of Urban planning and development”, Gang-Len Chang, University of Maryland.

Relevant Experience

- **October 2013 – on going: Freelance Architect and Designer (Italy):** I am working on designing private gardens for local companies and I am working on modeling and prototyping for architecture and design throughout the 3D print process.
 - **July 2012 (Italy):** Preparation of material for a lesson on modern theories of contemporary Italian architecture for the head of Department of Architecture, University of Pavia.
 - **June 2012 – August 2012: Design Member in the Company “RIALTO Ltd” (Italy)**
 - ✓ I worked in a team for the preparation of feasibility study for the project “Agri-Techno Villaggio” that will be realized in Peschiera Borromeo (MI). This company is a spin-off of the university of Pavia and they work as advice and design support for EU and non EU countries.
 - **September 2004 – June 2006: Volunteering-Teacher of Latin, old Greek and Italian (Italy)**
 - ✓ I gave free lessons in grammar and literature of Latin, old Greek and Italian to the students of the parish “Santa Maria Assunta” of Albuzzano (PV).
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Interests/ Extra Curricular

- ✓ During my period of university studies, I got involved in a variety of project workgroups and had the opportunity to work and study with people from different countries and cultures.
- ✓ I enjoy culture and sports, in particular football. I like to create and worked on some inventions during the period of my studies.
- ✓ I developed a deep understanding of 3D printing process and 3D graphic and renders with open source software (like Blender). I built my own 3D printer for the specific proposes I need.