



MARCO CAPRANI cv'17

ETH MAS in Architecture and Digital Fabrication 2017

MSc.Arch. - OAT n°9584

Born in Biella, Italy, 1987 - Marital status: unmarried
OAT - Italian Registered Architect since 21/09/2015
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work experience (~5 years)

- 2014 - 2016 **ARCHITECT & 3D GENERALIST, Camerana & Partners, Torino (Italy) - camerana.com**
Working as a designer for the renovation of the Alfa Romeo Museum in Arese, (Milano) for Maserati car stands and various architectural competitions.
Managing the 3D workflow of the studio: from modelling to rendering, establishing a common workflow between different software on different platforms and computers (especially: Rhino-CAD-3dsMax-VRay-Adobe CS).
NURBS modelling for hard-surfaces and parametric modelling with Grasshopper for special needs.
- 2014 **PROTOTYPING & DESIGNER, COLLABORATION, Cesare Griffa Studio, Torino (Italy) - cesaregriffa.com**
Working in the prototyping team of the "Urban Algae Façade" by Cesare Griffa and Carlo Ratti Associati;
FUORISALONE 2014 Exhibition - April 2014 | Milan, Italy
- 2013 - 2014 **INTERN ARCHITECT, SIMBIOSI ARCHITECTS Studio, Athens (Greece) - simbiosiarchitects.com**
Master dei Talenti 2013 program (internship abroad)- Award by CRT Bank Foundation, Torino
Working full-time in the firm on the daily practices of design: renovations projects and interior design of villas and shops
Participating in 3 international competitions
- 2013 **3D MODELER AND RENDERIST, COLLABORATION, GIANLUCA MURANO ARCHITETTO, Torino (Italy)**
3D Parametric modelling and rendering of an house in the United Arab Emirates.
- 2013 **INTERN ARCHITECT, Cesare Griffa Studio, Torino (Italy) - cesaregriffa.com**
Architectural design, drawings and renders for the renovation of the new headquarters (warehouses and offices) of Nital (Nikon Italia). Garden design of the inner courtyard.
- 2012 **PROJECT MANAGER ASSISTANT, COLLABORATION, NUSSLI Italia s.r.l, Torino (Italy) - nussli.it**
Construction managements assistant of the P.M A.P.Griva, for the realization of a multibrand store of DeLonghi, Braun, Kenwood, Ariete in Milan, San Babila, via Borgogna 8.
- 2010 - 2011 **GRAPHIC AND 3D MODELER, COLLABORATION, Caterina Tiazzoldi Studio, NUOVA ORDENTRA, Torino (Italy) - tiazzoldi.org**
Graphical presentation of a draft design of a commercial stand for Illy Coffée s.p.a
- 2010 **DESIGNER AND 3D MODELER, ACADEMIC TRAINEESHIP, PROTOCUBE s.r.l, Torino (Italy) - www.protocube.it**
Experience in designing and 3D modeling of small items for the rapid prototyping and 3D printing. (ZCorp 3D printers)
- 2009 **ARCHITECT AND DESIGNER, ACADEMIC TRAINEESHIP, Architectural firm Arch. Sergio Farassini, Biella (Italy)**
Architectural design and 3D modeling of a housing unit through a type of precast concrete blocks for new patents.

education

- 2016 - 2017 ETH MAS ARCH DFAB - Master of Advanced Studies in Architecture and Digital Fabrication
- with Digital Building Technologies Group, Gramazio & Kohler Research Group, Block Research Group
- 2016 Certificate of attendance - AAVS Jordan - Hyperbolic Reef Summerschool - 3D modelling of organic systems
- 2015 ETH with Eternit - Robotic Wire Cutting Summerschool, Gramazio & Kohler Research Group, Payerne (Switzerland)
Digital fabrication and modelling workshop, robotic wire cutting with Universal Robots, 1:1 scale prototyping.
- 2013 Certificate of attendance - AAVS Ivrea - Factory Futures, Ivrea (Italy)
- 2010 - 2012 Master of Science in Architecture - Politecnico di Torino, Facoltà di Architettura II, Torino (Italy)
- 2011 Visiting Scholar at RPI School of Architecture - Rensselaer Polytechnic Institute (RPI), Troy, New York, United States
Courses, seminars and exams, Fall Semester 2011
- 2011 ERASMUS program - UMons, Université de Mons, Mons (Belgium)
Courses, seminars and exams, Spring semester - Faculté d'Architecture et d'Urbanisme, Université de Mons.
- 2006 - 2010 Bachelor of Science in Architecture - Politecnico di Torino, Facoltà di Architettura II, Torino (Italy)
- 2001 - 2006 Scientific High School Diploma - Liceo "A.Avogadro", Biella, Italy
Bilingual scientific high school degree (FR-ENG).

academic experience / teaching

- 2015 - 2016 IED (European Institute of Design) - Interior Design Course (3 Years Bachelor) - Teacher of modelling and rendering
IED - Master in Smart Buildings and Sustainable Design - Teaching position in Rhino Modelling
- 2012 Scholar Assistant Professor at the *Architectural Construction Studio "Open Source Dwelling"*, 2nd year, Faculty of Architecture, Polytechnic of Turin.
held by Prof. Cesare Griffa, Prof. Roberto Giordano
Assistance activities in classroom during lessons, preparing teaching materials in English.
<http://opensourcewellbeing.wordpress.com/>
- 2010 Scholar Assistant at MULTIMEDIA LAB. (LADIPRO) - Polytechnic of Turin.
CISDA's scholar at the multimedia lab (LADIPRO) of Politecnico di Torino, he served assistance and teaching beginners students in the field of CAD software, and 2D and 3D image processing.
Scholar Assistant at MULTIMEDIA LAB. (LADIPRO) - Polytechnic of Turin.

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workshop & exhibitions

- 2014 Fuorisalone 2014 - Exhibition "Urban Algae Façade", role: Informative guide, presentation of the prototype to the public.
- 2012 *Water Lilly Workshop @ FABLAB TORINO*
involved in the development of a prototype of a "photobioreactor" for the exhibition "Traces of Centuries and Future Steps" at Palazzo Bembo (Venice) collateral event of the Biennale of Architecture.
- 2011 *Hyde Collection Design Charrette @ RPI SoA, NY*
design + exhibition and boards presentation.
- 2011 *Workshop "MONS 2015"*, design and presentation of a temporary installation for underground passages for the event of "MONS 2015 Capital Européenne de la Culture"
- 2010 *International Workshop "Parametric Design: Smart Skin for Sustainable Dwelling"*, held by the Politecnico di Torino Faculty of Architecture II (Italy) and the School of Architecture at Rensselaer Polytechnic Institute (Troy, U.S.) at Castello del Valentino, Turin.
Tutors: Cesare Griffa, Ted Ngai - Coordination: Graziella Roccella
- *Parametric design of a smart skin, to an existing building, using 3DS Max, Rhinoceros, Grasshopper softwares.*
- Organization and preparation of the exhibition "Smart Skin Parametric Design Exhibition" at the Cittadella Politecnica di Torino in the month of November 2010.

awards & achievements

- 2014 Caplavr - DESIGN SUITE: Honorable mention www.caplavr.com - Honorable mention for Corset Lamp project (product design) in collaboration with SIMBIOSI ARCHITECTS, Athens, Greece
- 2014 Honorable mention: San Felice sul Panaro - Architectural Competition: Municipality of San Felice sul Panaro in collaboration with SIMBIOSI ARCHITECTS, Athens, Greece - Italian architectural competition - 6th place
- 2013 CRT Bank Foundation Award - MASTER DEI TALENTI 2013, fellowship holder for intership abroad.
- 2013 Thesis Prix ALDA E ANTONIO CUSSINO, best thesis in Smart City and Smart Eco Architecture.
- 2013 Thesis Prix CARLO ALBERTO BORDOGNA for Architectural Design.

publications

- 2012 Helsinki Central Library 2017 Competition, webthesis publication
- 2010 On SuckerPUNCHdaily.com: [Adaptive Respiration Project](#)
- 2010 On Smart Skin for Sustainable Dwelling (book), Torino, Italy.

languages

Italian mother tongue
 French fluent - full working proficiency
 English fluent - full working proficiency

Certificates P.E.T with Merit (2005), DELF B1 (2005), Certificate of attendance French course École Polytechnique de Mons (2011)

knowledge & skills

<p>Office: Office (Word, Excel, Power Point), Open office ●●●●●●●○ + ECDL Certificate</p> <p>CAD & 3D modeling: Autocad 2D/3D (7 years) ●●●●●●●○ Rhinoceros + TSplines (8 years) (licensed) ●●●●●●●● 3DS Max ●●●●●●●○ SketchUp ●●●●●●●○ Maya ●●○○○○○○○ ZBrush ●●●●○○○○○</p> <p>BIM: Revit ●●○○○○○○○</p> <p>Rendering: VRay (Rhino & Max) ●●●●●●●○ Mental Ray ●●●●○○○○○ Keyshot ●●●●●●●○</p> <p>Graphic & video: Adobe CC Suite (8 years) Photoshop ●●●●●●●○ Illustrator ●●●●●●●○ InDesign ●●●●●●●○ Premiere ●●●●○○○○○ After Effects ●●●●○○○○○</p> <p>CAM & Fabrication: Magics ●●●●○○○○○ RhinoCAM ●●●●○○○○○ Netfabb ●●●●○○○○○ Cura ●●●●○○○○○ MeshLab ●●●●○○○○○</p> <p>Energy calc.: Ecotect ●●●●○○○○○ DialLux ●●●●○○○○○ DIVA for Rhino ●●●●○○○○○ Lighting Analysis for 3DSMax ●●●●○○○○○</p>	<p>Programming: Grasshopper ●●●●●●●○ Python script ●●●●○○○○○ Processing (Py mode) ●●●○○○○○ GCode (knowledge)</p> <p>Web: Wordpress CMS Indexhibit CMS html/css (basics)</p> <p>Hardware: CNC milling 3D Printers Lasercutters Wacom tablets 3D Connexion UR5 Robots Comau Robots ABB Robots</p> <p style="margin-left: 20px;"> general knowledge & experience of use</p>
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professional references

Prof. Arch. Fabio Gramazio - ITA / ETH Zurich, Gramazio & Kohler Research - gramazio@arch.ethz.ch
 Arch. Marco Piras - Archer Humphryes Architects, London - arch.marcopiras@gmail.com
 Prof. Arch. Cesare Griffa, head of cesare griffa studio, Fullbright Fellow - cesare@studiogriffa.net
 Arch. Benedetto Camerana - Camerana & Partners, Torino, Italy - amministrazione@camerana.com

I authorize the processing of any personal data contained in my curriculum vitae. D.Lsg. 196/2003

