



PERSONAL DATA:

Nationality:
Italian

Address of residence:
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Date of birth:
20.05.1996

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LANGUAGES SKILLS:

Italian (C2), English (C1),
Spanish (B1), Catalan (A2),
French (B2)

DIGITAL SKILLS:

- Good handle of OpenOffice
package (as Word, Excel, PP, ..),
- E-mail managing

and more specific software
on the engineering subject
such as:

- Qgis
- Autocad
- Revit
- Mathematica
- MatLAB
- ProSap

CURRICULUM VITAE – SIMONE IOTTI

English Version – Latest update: 30.05.2025

FORMATION

September 2019 – December 2022 | **Modena, Italy**

- **Master’s Degree in Civil and Environment Engineering, specialization in “Design of Structures and Infrastructures”** at the University of Modena and Reggio Emilia (**UNIMORE**)

Main subjects: Continuum Mechanics, Theory of Structures, Bridges, Existing Structures, Earthquake Engineering 1 and 2, Computational Mechanics, and Energy Management.

January 2021 – June 2021 | **Brno, Czech Republic**

- **Erasmus+ program Student** at Brno University of Technology (**FAST VUT**) in Brno, Czech Republic

Main subjects: Sustainable Buildings, Building Materials, Member of Metal Structures, Principles of Business Economics, Timber Structures, and Field in Training of Geodesy.

September 2015 – October 2019 | **Modena, Italy**

- **Bachelor’s Degree in Civil Engineering** at the **Department of Engineering “Enzo Ferrari”** at University of studying of Modena and Reggio Emilia (**UNIMORE**)

Main subjects: Building Science, Complements of Building Science, Construction Technique, Dynamic of Structures, Chemistry Applied of Materials, Technical Physics, Hydraulics, and AutoCAD.

Bachelor Thesis Topics: Megastructures - Petronas Twin Towers, construction of a highly engineered Megastructure using an innovative high-strength concrete obtained from a mix of local Malaysian materials (**Mascrete 80 Mpa**)

September 2017 – February 2018 | **Lleida, Spain**

- **Erasmus+ program Student** at Universitat de Lleida (**UdL**) in Lleida, Spain

Main subjects: Planning, Programming and Control, Topography and Restated, Structures 1, and Elasticity and Strength of Material 2.

September 2010 – July 2015 | **Modena, Italy**

- **High school Diploma “Tecnico di Costruzioni, Ambiente e Territorio”** at the State Technical Institute for Surveyors "Guarino Guarini"

Main subjects: Topography, Safety on Construction Sites, Construction, Design and Installation, AutoCAD for Beginner, AutoCAD Middle Level, AutoCAD Advanced Level, 3D Level, e REVIT.

PROFESSIONAL EXPERIENCES

January 2023 – *Nowadays (2023)* | **Yverdon-les-Bains, Switzerland**

- **Academic assistant** at **HEIG-VD (Haute Ecole d'Ingénierie du Canton de Vaud)** to **EC+G (Department of Civil Engineering and Geotechnics)** in Yverdon-Les-Bains, Switzerland

The work I am carrying out regards both durability’s assessment and improvement of Shot-Earth (*or Terre-Projeté*). Chemical classification (*XRD and XRF data*) and calcination process (*TGA*) are being ongoing.

February 2022 – November 2022 | **Yverdon-les-Bains, Switzerland**

- **Trainee** at **HEIG-VD (Haute Ecole d'Ingénierie du Canton de Vaud)** to Yverdon, Switzerland

Internship aimed at researching the durability of innovative and zero-wasting materials for structures and infrastructures made mostly by earth, so soil-based, for the future sustainability. Furthermore, the research activity has been carried out with a fruitful experimental campaign in the laboratory that involved real-sized beams and vaults for a more accurate analysis of their mechanical behavior, as well as of the degradation itself over time. Finally, massive development of a new posing technology for earth, with high mechanical and economical advantages: **Shot-Earth**. At the end, final Master thesysis were presented.

Master thesis: Shot-Earth: Durability appraisal and Weathering actions may influence its behaviour – *Experimental campaign*.

May 2014 – June 2014 | **Modena, Italy**

- **Intern (Stage)** at **Building construction factory “Malagoli Giancarlo & c.snc”** in Modena, Italy

School internship activities. Predominant use of software such as AutoCAD.

February 2024 - February 2025 | **Yverdon-les-Bains, Switzerland**

- **Research Fellow** in collaboration with the University of Modena and Reggio Emilia (UNIMORE) “Energy harvesting via naturally induced piezoelectric vibration with a view towards applications”

CERTIFICATIONS

December 2023 | **Modena, Italy**

- **Module 3:** Specific formation for risk level medium (4 hours)

November 2023 | **Modena, Italy**

- **Module 2:** Specific formation for risk level medium (4 hours)

November 2023 | **Modena, Italy**

- **Module 1:** General formation on prevention and security among the workplace (4 hours)

October 2023 | **Yverdon-les-Bains, Switzerland**

- **Training Certificate: SETSYS – TGA-FTIR – WETSYS**

Course organized by Setaram (FR), Kep Technologies, Setaram Certification.

May 2014 | **Modena, Italy**

- **Course of “Responsabile/Addetto del Servizio di Prevenzione e Protezione, Module A”**

Course organized by the State Technical Institute for Surveyors "Guarino Guarini": INAIL certification.

April 2014 | **Modena, Italy**

- **REVIT** for Beginner, **Basic Level**

OWN SKILLS:

- Adaptability
- Teamworking
- Researching activity
- Networking
- Socialization
- Hardworking

Licences:

- Drive license, B, F
(Format CH)

Course organized by the State Technical Institute for Surveyors "Guarino Guarini"
March 2013 | **Modena, Italy**

- **Certification of AutoCAD, Advanced Level, AutoCAD 3D**

Course organized by the State Technical Institute for Surveyors "Guarino Guarini"

PUBBLICATIONS

March 2024 | **Yverdon-les-Bains, Switzerland**

- “Characterization of Shot-Earth: chemical aspects and physical performances” by L. Barbieri, L. Lanzoni, R. Marchetti, S. Iotti, A.M. Tarantino, I. Lancellotti.

DOI: [10.3390/su16062444](https://doi.org/10.3390/su16062444)

Journal: Sustainability

Status: *Published*

July 2025 | **Yverdon-les-Bains, Switzerland**

- “Rethinking Excavated-Earth Concrete: Water Behavior of Shot-Earth, a Sustainable Earthcrete” by S. Iotti, L. Lanzoni, A.M. Tarantino, M. Viviani.

DOI: -

Status: *To publish*

PERSONAL INTERESTS

Eco-friendly Engineering, Researching, Mega-structures, Design of structures and infrastructures, Bridges

PERSONAL DATA PROCESSING

I authorize the processing of my personal data pursuant to Legislative Decree 196/2003 and EU regulation no. 2016/679 (GDPR)

