

## PERSONAL INFORMATION



## Federico Illengo

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Sex Male | Date of birth 20/11/1983 | Nationality Italian

## POSITION

## Civil Engineer

## WORK EXPERIENCE

from 01/2011 – to today

### Freelance engineer

Studio tecnico Ing. Illengo Federico

- structural design of private buildings in brickwork, wood and reinforced concrete
- construction manager
- renovation and energy requalification of residential buildings (iisBE ITACA protocol)
- building energy certifications and technical reports on compliance with energy regulations of civil buildings

Business or sector Civil engineering, building design

from 03/2010 – to today

### Consultant

Studio tecnico Caprioglio, Casale Monferrato (Italy)

- Planning permissions and authorization drafting
- Seismic analysis of new and existing buildings
- Energy certification of buildings
- Technical Report on compliance with energy of civil, commercial and industrial
- Brickworks, reinforced concrete and wooden structures design
- Overseeing construction on the ground, site visits and surveys

Business or sector Civil engineering, building design

## EDUCATION AND TRAINING

from 2002 – to 2009

### Master degree in Civil engineering

EQF 7  
ISCED 5A

Politecnico di Torino - faculty of civil engineering; 24, C.so Duca degli Abruzzi, 10129 Torino (Italy)

- Design, development, construction and maintenance management of civil works, such as buildings (residential, industrial, etc.), structural works (eg structures in reinforced concrete), transport and hydraulic infrastructures, geotechnical works (foundations).

Foreign experience: Erasmus at the Karlsruhe Institute of Technology from March 2008 to August 2008. Preparing special project and master thesis.

Master thesis: "Coherence of the performance behaviour of modified bitumens and asphalts produced with them" – Supervisor: Prof. Ing. Marco Bassani

from 2009 – to 2012

### Courses and seminars:

- Course in relief of the damage and of the seismic vulnerability organized by the Eucentre Foundation in Pavia (32h);
- training course (80 h) in "Building energy certification and renewable energy" organized by the Centro Studi Galileo - Casale Monferrato base - plus examination and certificate in "Building energy certification and renewable energy";
- training course (28 h) plus examination and certificate in "Expert in ITACA protocol for residential building" organized by iiSBE (International Initiative for a Sustainable Built Environment) Italia;
- training course (24h) about "static and seismic analysis of geotechnical structures" organized by the Fondazione Ordine degli Ingegneri di Torino;
- training course (8h) about "design for heating systems in building" organized by the Fondazione Ordine degli Ingegneri di Torino.

from 1997 – to 2002

### Scientific high school degree

EQF 4

Liceo scientifico Palli; 3, Galeotto del Carretto street, 15033 Casale Monferrato (Italy)

### PERSONAL SKILLS

#### Mother tongue(s)

Italian

#### Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B1	B1
E.S.O.L. Examination P.E.T.: Pass with merit – B1					
German	B1	B1	B2	B1	B1
Zertifikat Deutsch – Goethe Institut – B1					
French	A2	A2	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

#### Communication skills

- open minded and very stimulated by working in a multicultural context;
- very keen on teamwork, however I never refuse independence;
- dynamic person, easy to get on with and always on hand to help.

#### Organisational / managerial skills

- skills in problems solving and managing construction projects from the planning of the work to his building on site (experience in private residential building);
- able to work independently and self manage time thanks to the experience as freelance engineer.

#### Job-related skills

- Structural and seismic analysis of civil engineering works using finite element modelling, in particular residential buildings;
- design of civil buildings, roads and geotechnical structures;
- calculations for compliance with energy regulations of civil buildings and rating the sustainable performance of buildings;
- writing technical reports;
- CAD drafting.

#### Computer skills

- productivity software: good command of Microsoft Office™ tools, iWork and Open Office;
- operating systems: excellent knowledge of Microsoft Windows and Mac OSX
- CAD softwares: good command of Autodesk Autocad LT (2000-2013) and Dessault Systemes Draftsight, basic knowledge of Graphisoft ArchiCAD (3D CAD) ;
- Programming language: knowledge of the basic functions of Mathworks Matlab;
- Good command with software for calculating the energy performance of buildings (ACCA Termus and Edilclima EC700);
- F.E.M. softwares for structural analysis: good command of Concrete Sismicad;
- Road design softwares: good command of Bentley MXRoad;
- Graphics editing program: good command of Adobe Photoshop and iPhoto.

**Other skills** ▪ good knowledge and experience in bitumen testing, which I gained during my Master thesis using the equipment of the laboratory of DITIC, Politecnico di Torino.

**Driving licence** ▪ B

#### ADDITIONAL INFORMATION

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**Conferences** **“Project Young Engineers” participant at World Engineers’ Convention 2011 in Geneve (Switzerland) from 04/09/2011 to 09/09/2011:**

- worldwide competition and conference attracting specialists from all fields of engineering;
- international team of five to complete the project **“Transformation path for a sustainable building stock in Switzerland”**. Project was presented at the convention in Geneva, Switzerland, to a panel of international experts.

**Memberships** ▪ Licensed engineer and member of the “Ordine degli Ingegneri della provincia di Alessandria” (National Engineer’s Register)

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I also agree to the access to my personal information, according to the law ex D.LGS. 196/03. Aut. Min. N. 13/I/0007145/03.04, dated April 1st 2008.