

PERSONAL INFORMATION

Lapo Baccolini



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-  Skype lapo.baccolini

Sex Male | Date of birth 10/07/1984 | Nationality Italian

PREFERRED JOB

Geotechnical engineer

WORK EXPERIENCE

12/2011 – Present

**Civil engineer, freelance**

Consultant at “Studio Ghinelli” Engineering Firm, Florence (Italy)

Geotechnical design and consulting with specific skills in:

- scheduling and interpretation of geotechnical investigations and instrumental monitoring;
- geotechnical modelling and characterization of soils and rocks;
- design of foundation, retaining walls and soil improvements;
- stability analysis of quarries faces and embankments, riverbanks in particular;
- safety analysis of natural slopes and design of stabilization measures;
- independent validation of structural computation for underground structures.

04/2013

**Civil engineer, freelance**

Consultant at “Ing. Fabio Torelli” Engineering Firm, Florence (Italy)

Geotechnical study and computation of mechanically stabilized earth, for the “Project for restoration, rehabilitation and re-qualification for tourist accommodation of the former S. Lucia convent in Florence”.

02/2013

**Civil engineer, freelance**

Consultant at “ThinkING - Ing. Serena Fiorindi” Engineering Firm, Pistoia (Italy)

Safety analysis of natural slope and study of slope stabilization measures, for the “Project for the restoration and structural consolidation of Rocca di Sala in Lucca (Italy)”.

01/2013

**Civil engineer, freelance**

Consultant at “Soluzione Ingegneria” Engineering Firm, Pistoia (Italy)

Drafting technical report concerning “instrumental analysis for characterization of subsurface and definition of topographical conditions”, regarding the tender for seismic vulnerability assessment of public buildings and schools in Pistoia area”, Province of Pistoia.

12/2012

**Civil engineer, freelance**

Consultant at “Ing. Emanuele del Monte” Engineering Firm, Arezzo (Italy)

Drafting administrative and technical documents concerning “geotechnical characterization and site seismic modelling”, regarding the public tender “Engineering service aimed at seismic vulnerability assessment of public buildings in Perugia area”, Province of Perugia (Italy).

EDUCATION AND TRAINING

- 11/2013 – Present **2<sup>nd</sup> level Master in Geotechnical Design** EQF level 8  
 Faculty of Civil and Industrial Engineering, Sapienza University of Rome, Rome (Italy)

  - geotechnical characterization of rocks and soils by means of in field and laboratory tests;
  - geotechnical modelling;
  - foundation design;
  - tunnel and underground structures design;
  - slope stability and stabilization methods.
- 04/2013 – 06/2013 **Professional refresher course "Seismic Vulnerability and Retrofitting of Existing concrete buildings" (24 hours)**  
 Order of Engineer, Pistoia
- 01/12/2011 **Master's degree in Civil Engineering (2<sup>nd</sup> cycle degree)** EQF level 7  
 Faculty of Engineering, University of Florence, Florence (Italy)

Master Thesis, "Deep excavation interacting with road infrastructures, application to the underground drainage structure serving the Historical Archives of European Union at Villa Salviati, Florence".  
 Tutors: Prof. Ing. A. Ghinelli, Prof. Ing. P. Capone, Ing. R. Renai, Ing. S. Neri.
- 20/03/2012 **Advanced Course of DeepXcav 2012 software (6 hours)**  
 Harpaceas srl, Milan (Italy)
- 01/2011 – 11/2011 **Internship**  
 "Studio Ghinelli" Engineering Firm, Firenze (Italy)

  - building site supervision of underground drainage structure in via Salviati (FI);
  - mechanically stabilized earth study in Volterra (PI).
- 05/2011 – 06/2011 **Professional refresher courses "Geotechnical design according to the Italian Construction code NTC '08" (20 hours)**  
 Order of Engineer, Pistoia
- 08/10/2008 **Bachelor's degree in Civil Engineering (1<sup>st</sup> cycle degree)** EQF level 6  
 Faculty of Engineering, University of Florence, Florence (Italy)
- 03/2008 – 09/2008 **Internship**  
 "St.IMA Ingegneri Mannelli Associati" Engineering Firm, Pistoia (Italy)

  - assistance for the design of an underground parking, San Giorgio Area, Pistoia.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B2	B2

- Communication skills**
- Good skills and abilities to work in a team and share knowledge. Good attitude to problem solving and definition of optimal solutions. These skills have been acquired during university courses, professional activities in offices, on site and in meetings with design groups and technical committees of public bodies.
- Organisational / managerial skills**
- Ability to independently organize work and to manage and coordinate work teams by setting priorities, taking responsibility, fulfilling deadlines and expected objectives. Ability to work in stressful situations. These skills have been acquired during work and in carrying out tutorial activities for students.
- Computer skills**
- Very good command of DeepXcave software released by Harpaceas srl;
  - very good command of calculation code STABL;
  - good command of softwares for continuum geotechnical modeling Plaxis 2D and FLAC<sup>TM</sup>, for 2D and axially simmetric analysis of tunnel in particular;
  - good command of Slope/W e Seep/W computational software released by Geo-Slope Ltd;
  - good command of computation software released by Geostru Software;
  - good command of software released by Rocscience Inc.;
  - good command of PriMus software released by Acca Softwares;
  - very good command of Microsoft Office;
  - very good command of Autocad and DraftSight;
  - ability to quickly learn new software.
- Other skills**
- Since I was ten years old until today, player of football teams in Pistoia and Florence areas.
- Driving licence**
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## ADDITIONAL INFORMATION

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- Projects**
- Geotechnical consultancy for the project “Interventions for the rehabilitation of concrete structures of the shallow spillway, Montedoglio Dam, Arezzo (Italy). Client: Water Authority of Umbria and Tuscany (EAUT). Amount: 3'985'000,00 €, after-tax. May 2012 – April 2013.
  - Design of natural slope stabilization and restoration of a local road in Arezzo (Italy). Client: Private. Amount: 77'052,00 €, after-tax. August 2013 – October 2013.
  - Independent validation of the geotechnical aspects in calculation report, for the design of Macherio 2 cut & cover tunnel, within the project of the Motorway link Dalmine - Como - Varese - Passo del Gaggiolo and connected works. Client: Nuova Briantea S.c.arl.. Amount (Macherio 2 tunnel): 12'875'900,69 € (estimated). March 2013 - July 2013.
- Publications**
- Giusti A., Baccolini, L., “Stato di sollecitazione e di deformazione di travi elastiche ad asse curvilineo: il nocciolo d'inerzia ridotto”, Book of Abstracts, XXI Congress of the Italian Association of Theoretical and Applied Mechanics, Turin (Italy), September 17th- 20th 2013.
- Seminars**
- Lecturer on multipropped retaining walls analysis and on application of the Italian Construction Codes for the shallow foundations design, from 2011 to 2014, for the “Foundation and Retaining wall course” for Master’s degree in Civil Engineering at the Faculty of Engineering, University of Florence.
- References**
- Prof. Ing. Alessandro Ghinelli (Studio Ghinelli & DICEA) a.ghinelli@studioghinelli.it
  - Ing. Stefano Cola (Ente Aque Umbre Toscane) stefano.col@eaut.it
  - Ing. Andrea Marzi (STRABAG) andrea.marzi@strabag.com
  - Ing. Fabio Torelli fabiotorelli@aniag.org
  - Ing. Emanuele Del Monte (DICEA) emadelmo@dicea.unifi.it
  - Ing. Luca Vienni (Soluzione Ingegneria) l.vienni@soluzioneingegneria.it