

PERSONAL INFORMATION

Nicola Rainiero



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Gender Male | Nationality Italian

PROFILE

A civil geotechnical engineer with the ambition to facilitate own work with free software for a knowledge and collective sharing.

In details:

- ▷ FreeBASIC for realizing simple and iterative software
- ▷ Fortan and iPython for data analysis and scientific computing
- ▷ LaTeX and Beamer for typesetting of books and presentations
- ▷ Blender 3D for architectural visualization, animation and real-time applications
- ▷ jQuery Mobile and PhoneGap to create web applications for mobile devices
- ▷ Achieved the basics of programming games and interactive software in Python
- ▷ Drupal 8, HTML5 and PHP 7 (rainnic.altervista.org)

WORK EXPERIENCE

09/2015 – today **Steward, porter, wakeful and technical supervisor**

Coopgress – Verona 83, Padua

Acquired progressive experience in managing a group of workers, accepted growing responsibilities and different tasks to enhance organisation and structural and fire control at *PadovaFiere*.

- steward and fire warden of congress, concerts, exhibitions;
- after demonstrating punctuality, honesty, reliability and hardworking skills, promoted to foreman (supervised more than 30 workers per day);
- receptionist at PadovaFiere;
- porter at PadovaFiere, Health Service of Padova, District of Padova, University of Padova;
- technical supervisor for structural and fire control safety.

06-08/2015 – today **Technical Reviewer**

Packt Publishing Ltd – Birmingham (UK)

Reviewed some technical documents, using mainly cloud services like GitHub.

- *Learning IPython for Interactive Computing and Data Visualization, Second Edition* (published on October 2015);
- *Learning Pandas, 2nd Edition* (published on June 2017).

05/2015 External collaborator on a commercial research

Ergo srl – Pisa

About the pilot project *PRISCA*, funded by the European Commission through the program Life Plus and at the headquarters of the Cooperativa Insieme in Vicenza:

- designed and developed Forex panels for the exhibition stand, following the latest research in the field of green advertising and involvement;
- administered appropriate questionnaires in response to certain visual incentives;
- collected data.

06/2014 – 12/2014 Internship

Scuola Superiore Sant'Anna – Institute of Management, Pisa

As part of the *REGEOCITIES* project funded by the *IEE* Program with ambitious objectives regarding Shallow Geothermal Energy Systems:

- analysis of the non-technical administrative and regulatory barriers at local and regional levels;
- coding using NVivo software of the SEAP documents, developed by European local authorities within the own initiatives regarding groundsource systems;
- life-cycle cost review of ground-coupled heat pump systems in Europe.

10/2010 – 10/2012 Freelance engineer

Project SCARL – Rovigo

Trainee and collaborator in a professional corporation of architectural and engineering design. Visually interpreted construction details and building compositions. Resolved together with clients, designers, contractors and local agencies a myriad of engineering and design issues.

Skills developed

- dealt administrative paperwork related to building permits, licences and contracts;
- survey and graphic representation in plan, section and elevation views;
- CAD drawing (paper and space model, dynamic blocks and tables, AutoLISP);
- geotechnical report for superficial and deep foundations;
- hydraulic report for collection and disposal of storm sewer systems.

2012 Professional updating course on DM 2008 (Italian Construction Works Rules, focus on the implementing of Eurocodes 6,7 and 8) at Association of Engineers in Rovigo.

05/2006 – 09/2011 Steward, cashier and wakeful

Coopgress - Verona 83 – Padua

2008 Instructed to *fire safety situations for activities at high risk of fire* with certification issued by the Fire Department of Padua.

EDUCATION**1997–2010 Postgraduate in Civil Engineering - Geotechnical field****ISCED 5**

Università degli studi di Padova – Padua

Masters Thesis Legislative and design aspects related to the ground energy systems**1991–1997 Secondary school certificate**

Liceo Scientifico G. Sichirollo – Rovigo

2010 – Present Enrolled at Association of Engineers

Rovigo, no. 1240 – section A

TRAINING

- Continuing professional courses
- ▷ 2017 – Workshop on *BIM – the new design method based on integration*, promoted by Association of Engineers and WAVIN ITALIA SPA
 - ▷ 2017 – Workshop on *Doing business with an app: becomes an App Developer*, promoted by Association of Engineers and Fenice Green Energy Park
 - ▷ 2017 – Workshop on *Remotely Piloted Aircraft Systems (RPAS) and their use in engineering*, promoted by Association of Engineers
 - ▷ 2017 – Workshop on *Foundations and retaining structures: ground-structure interaction and IT applications supported by FEM method*, promoted by Association of Engineers
 - ▷ 2016 – Workshop on *Finite element modelling to study soil in Geotechnical Engineering*, promoted by Association of Engineers
 - ▷ 2016 – Workshop on *Materials testing for structural use*, promoted by Association of Engineers and Geoconsulting, with technical visit at the Geoconsulting laboratory
 - ▷ 2016 – Workshop on *Special geognostic surveys*, promoted by Association of Engineers
 - ▷ 2016 – Completed with distinction a course in *ColWri2.2x: English Grammar and Essay Writing*, promoted online by edX and BerkeleyX
 - ▷ 2015 – Completed with distinction two courses in *HTML5.1x: Web Design Fundamentals* and *HTML5.2x: HTML5 Part 2: Advanced Techniques for Designing HTML5 Apps*, promoted online by W3Cx and edX
 - ▷ 2015 – Completed with distinction a course in *Éléments de Géomatique*, promoted online by École Polytechnique Fédérale de Lausanne and Coursera
 - ▷ 2015 – Continuing education course on Radiant Heating Systems (second module), at Wavin Solutions Center in Occhibello (RO)
 - ▷ 2015 – Conference on New horizons in fire prevention, promoted by Rovigo Association of Engineers, in order to show the new technical fire prevention standards
 - ▷ 2015 – Continuing education course on Radiant Heating Systems (first module), at Wavin Solutions Center in Occhibello (RO)
 - ▷ 2014 – Workshop on Shallow Geothermal Energy Systems and LEGEND Project, promoted by Veneto Region at Museo dei Grandi Fiumi in Rovigo
 - ▷ 2014 – Continuing education course on Storm Sewer Management, promoted by Association of Engineers and Wavin Italia SpA, at Wavin Solutions Center, Occhiobello (RO)
 - ▷ 2014 – Continuing education course on Seismic Geotechnics, promoted by Rovigo Association of Engineers
 - ▷ 2014 – Completed with distinction a course in Maps and the Geospatial Revolution, promoted online by Coursera and Pennsylvania State University
 - ▷ 2014 – Completed with distinction a course in Exploratory Data Analysis, promoted online by Coursera and Johns Hopkins University
 - ▷ 2014 – Completed with distinction a course in The Data Scientist's Toolbox, promoted online by Coursera and Johns Hopkins University
 - ▷ 2014 – Completed with distinction a course in Web Application Architectures, promoted online by Coursera and University of New Mexico
 - ▷ 2013 – Completed with distinction a course in Structure Standing Still: The Statics of Everyday Objects, promoted online by Coursera and University of Florida
 - ▷ 2013 – Completed with distinction a course in An Introduction to Interactive Programming in Python, promoted online by Coursera and Rice University
 - ▷ 2013 – Achieved General English Course, Eastbourne School of English, Eastbourne, CEFR level: B1

PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1 ¹	B1 ¹	B1 ¹	B1 ¹	B1 ¹
French	A1	A1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference \(CEF\) level](#)

¹ Certified by Eastbourne School of English in 2013

- Communication skills**
- Implemented a dynamic web site in Drupal 7 with publication of material relating to the engineering profession and IT in general in two languages: Italian and English (starting from 2012)
 - Press agent at Villadose Rugby Company (2003-2009). Besides I realized in 2007 a promotional video for the First Feast of the Associations of Villadose and subsequently posted on YouTube. The movie through three sections tells the thirty-year history of passion, sacrifice and satisfaction of this Club
 - Journalist in a weekly sport magazine called Area Sport, Rovigo (2003-2004)
 - Composed and performed a reenactment show, that it has been interpreted by Legio I Italica Group at the Ludi Savarienses festival in Szombathely (Hungary - 2003)
 - Oral Presentation at the 4th Congress of Experimental Archaeology with Reconstruction of Roman legionary cuirasses. Description of a reproduction of a lorica segmentata and hamata (Villadose - 2002)
 - Foreman of Villadose's Archaeological Group for mounting and greeting visitor to the stand of Rovigo District at the XXV International Exhibition L'Italia in Giappone (Osaka, Japan - 2002)
 - Jubilee volunteer in Rome as pilgrims information clerk (Rome 2000)

- Organisational / managerial skills**
- Leadership and good experience in managing a group of people, achieved working as foreman at the Verona 83 SCARL Cooperative starting from 2006

- Job-related skills**
- Problem solving
 - Teamwork, working with the public, get results
 - Multitask

Digital competences	SELF-ASSESSMENT				
	Information Processing	Content creation	Communication	Problem solving	Safety
	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

[Digital competences - Self-assessment grid](#)

- Computer skills**
- Basic: Python, fem, Octave (clone Matlab), Sismicad, Plaxis, Straus.
 - Intermediate: Web design and admin, Drupal 7, Graphics 2D & 3D, Office suites, Microsoft Windows, Linux.
 - Advanced: CAD, Computer Hardware and Support.

Driving licence B (automobile)