PERSONAL INFORMATION

Gianluca Zorzi

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JOB APPLIED FOR POSITION

PhD Position

WORK EXPERIENCE

October 2015 - June 2016

Master's Thesis/ Internship

BAM (Federal Institute of Research and Material Testing)

- Development of a methodology to numerically and experimentally investigate the ratcheting convective cell experienced by the soil under long term lateral cyclic loading condition and its relation with some design parameters.
- Software utilized: Python and Matlab scripting language, ImageJ image processing, Particles Image Velocimetry (PIV), YADE Discrete Element Method

June 2014 - December 2014

Internship

IFSTTAR (The French institute of science and technology for transport, development and networks) - GPEM (Aggregates and material processing laboratory) ,Nantes, France

- Development of a procedure to reconstruct tomographic scans of multiphase materials in order to provide data for discrete element simulations of such materials.
- Software utilized: Python scripting language, ImageJ image processing, LMGC90 simulation framework

EDUCATION AND TRAINING

September 2013-June 2016

International Master Course in Civil Engineering

108/110

University of Bologna, Italy

- Submitted a thesis titled "Numerical and experimental investigation of structural stiffness influence on ratcheting convection cell in granular soils under cyclic loading"

February 2015-June 2015

Erasmus plus program , Master of Science in Coastal offshore and Port Engineering

Aalborg University, Denmark

- Semester Group Project: "The Extension of the Port of Hanstholm"
  Supervisors: Prof. Lars Bo Ibsen (Geotechnics), Dr. Jørgen Quvang Harck Nørgaard (Hydraulics)
  Hydraulic and geotechnical investigation and design for the extension of the breakwater of the Port of Hanstholm, Denmark.
- Semester courses: The Excitation and Foundation of Marine Structures; Coastal, Offshore and Port Engineering;Risk and Reliability in Engineering
- Software utilized: PLAXIS, MIKE 21, MATLAB

June 2013-August 2013

Intensive English Program (IEP)

English Language Institute (ELI), University of British Columbia, Vancouver, Canada

September 2009-March 2013

Bachelor's degree in Civil Engineering

97/110

University of Padova, Italy

- Submitted a thesis titled "Experimental Analysis of the Ratcheting Phenomenon in Granular Soils" for which a sophisticated physical model for its investigation was built.

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1
French	B2	B2	B2	B1	B1
German	A1	A1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Communication skills

- International experience gained by studying/working abroad
- Good confidence levels, networking and communication skills

Organisational / managerial skills

- Teamwork skills gained through different group projects
- Highly motivated self-starter that works well with little supervision
- Quick problem solver and practised handyman in various fields of expertise
- Fast learner that can work under pressure and unpredictable conditions

Job-related skills

- Expert in programming with Python and MATLAB
- Vast knowledge in numerical simulation with Discrete Element Method and Finite Element Method
- Expertise in image processing using software such as ImageJ, Tracker, PIV techniques

ADDITIONAL INFORMATION

Publications

- Gabrieli, F., Zorzi, G., Wan, R.. (2014). Granular ratcheting phenomena behind a model retaining wall. Geomechanics from Micro to Macro,601-606

Projects

- Ongoing collaboration with Dr. F. Gabrieli (University of Padova, Italy) and Dr. R. Artoni on DEM simulations of granular ratcheting

Honours and awards

- ERASMUS European Exchange Program Scholarship
- Scholarship from the University of Bologna for research periods abroad in relation with the Master's thesis

ANNEXES

- Official transcript of grades for bachelor and master studies