



## BASILIO GIURGOLA

05/13/1987 Vibo Valentia (Italy)

email: basiliogiu@hotmail.com

mobile: (+ 39) 328 4765145

**INTEREST:** Geotechnical and Tunneling Engineering

### PERSONAL PROFILE

---

I am a very dynamic person, ready to adapt myself to different cultures. Through my experience abroad, I have become very good at working in groups, and have developed excellent communication and leadership skills. I welcome new challenges and sharing of goals. Because of my determination and commitment to the profession, I have completed different Masters in Geotechnical Engineering. My personal interests include design and analysis of Tunnels (traditional excavation and TBM), Geotechnical Structures such as deep/shallow Foundation, Retaining Walls, Slope Stability, Analysis and Road Construction and Residential Structures.

Working abroad has given me the opportunity to improve my social, economic and cultural life, and to achieve important goals in my personal and professional life.

### EXPERIENCE

---

#### **GEOTECHNICAL TUNNEL ENGINEER**

**Bucharest, Romania 2014**

**ASTALDI S.p.a**

On construction site experience. Tunneling works in Bucharest area concerning the construction of a subway tunnel "line M5" with *TBM-EPB*.

*Main Roles:*

- Contribute to tunnel monitoring activities during sequential excavation
- Interpretation of data machine
- Risks assessment
- Soil conditioning
- Design support on construction activities

**OFFSHORE ENGINEERING PROJECT** - Sponsored by Fugro, Ifremer and Total.

Grenoble, France 2013

**3SR - Laboratory**

*Researcher and Project Management*

- Developed GEOPS Probe, a special penetration tool able to analyze the seabed in order to recognize the presence of methane hydrate. I conducted research directly on the probe. I planned and surveyed execution of several laboratory tests, such as penetration tests and seismic wave measurements.
- Obtained new results and reached important goals related to the project using the knowledge, skills and new experimental techniques in geomaterials I learned during the Doctoral Geomaterial School. The results were approved by my supervisors and the companies involved.

## EDUCATION

---

**UNIVERSITY Of ROME "La Sapienza"** Sponsored by Astaldi, Rocksoil, Cipa, Condotte and more

Rome, Italy 2014

***Master of Engineering (Post-Graduate Program) in Geotechnical Design***

Relevant CourseWork: Soil and Rock Classification by Laboratory and In situ test, Geotechnical Modelling, Foundation Design, Tunnel Design and Excavation Analysis, Slope Stability Design

**UNIVERSITY Of CALABRIA (UNICAL)**

Cosenza, Italy 2013

(Grading Average 105 out of 110; i.e. G.P.A. 4.7 out of 5.0)

***Master of Engineering in Geotechnical Engineer***

Relevant CourseWork: Slope Stability, Foundation, Geotechnical Structures, Soil Improvement, Engineering Sesimology, Hydraulic Construction, Road Construction

**UNIVERSITY JOSEPH FOURIER (U.J.F)**

Grenoble France 2013

***Master of Science in Geomechanics, Civil Engineering and Risk***

Relevant CourseWork: Advanced Experimental Geomechanics, Advanced Rock Mechanics, Behavior of Geotechnical Structures, Advanced Soil Mechanics

**UNIVERSITY Of CALABRIA (UNICAL)**

Cosenza, Italy 2011

***Bachelor of Science in Civil Engineering***

Relevant CourseWork: Physics, Mathematical Analysis, Geology, Construction Science, Geotechnics, Road Construction, Architecture, Chemistry, CAD

## RELEVANT SKILLS

---

***Projects :***

Analysis and Design of a Residential Building; Slope Stability Analysis by Finite Elements of several slopes, Analysis of Retaining Walls using European Code, Site Soil Improvement; Rehabilitation of Hydroelectric Power Plant; Tunnel design; Pile Foundation design

**Software :**

AutoCAD ; Slope Geostru; Plaxis; ArchiCAD ; Matlab; Java; Php; VisualBasic; MS Office;Photoshop; PhotoWarp

**Lab. Tests:**

Miniature Vane Test; Soil classification testings; Triaxial Test; Direct ShearTests; X-ray Tomography and Digital Image Correlation Unconsolidated-undrained triaxial compression test; Consolidated-undrained triaxial compression test; Consolidated-drained triaxial compression test;

**LEADERSHIP**

---

**ENGINEER ASSOCIATION**

*Vibo Valentia, Italy 2014*

- Chartered Engineer

**ALERT DOCTORAL GEOMATERIAL SCHOOL**

*Aussois, France 2012*

Engineering School

- Learned new ways to conduct laboratory tests applied to Geomaterials, such as X-Ray tomography, Wave Measurements by Bender Elements and Digital Image Correlation.

**ROTARY Club**

*Rome, Italy 2014*

- Rotaract Club member of Roma Mediterraneo 2080

**AGESCI Boy Scout**

*Vibo Valentia, Italy 2008*

Volunteer

- Taught 50+ people scouting values such as responsible citizenship and self-reliance, and participated in several activities and educational programs.

**SKILLS**

---

**Languages:** Italian - English – French

**Activities:** Travel; Athletic Activities. Valid Driver's License

I authorise the processing of my personal data for personnel research and selection purposes