



Maurizio Calabrese

Education

Graduated at the University of L'Aquila, Italy, with a degree in Civil Engineering (1989)
Courses of Soil Mechanics in Italy and abroad
Languages: Italian as mother tongue, good level of English

Current work

From 2011 - Consultant geotechnical eng. in "Studio Pietrangeli srl" – Rome (Italy) - <http://www.pietrangeli.it/>

Work experience

2009 - 2011 Studio Prof. Marchetti Srl – Rome (Italy)	onshore, offshore and seismic geotechnical engineering site investigation.
2007 - 2008 Bonifica SpA – Rome (Italy)	chief geotechnical eng. - special foundation, slope stability, deep excavation.
2006 - 2007 for InterGEO Italia Srl – Milan (Italy)	contaminated sites investigation and remediation of petrol stations.
2002 - 2006 University of L'Aquila (Italy)	researcher - deep foundations, soil characterization of soils (in-situ and lab tests).
1991 - 2002 University of L'Aquila (Italy)	technician at the geotechnical laboratory.

Teaching in courses of: soil mechanics, geotechnical monitoring, slope stability.
Author and co-author of 29 scientific papers (list available in CV addendum).
Participation in many conferences in Italy and abroad.

On site experience

Inshore and offshore site investigation, in Italy and abroad: Europe, Africa, Middle East, US, Mexico.
Contaminated site investigation and remediation in the field of Environmental engineering in more than twenty sites in North of Italy.

Main projects

- 2011-12 Site characterization and geotechnical report for Saddle Dam foundation, Millennium project (Ethiopia), Studio Pietrangeli srl, Rome (Italy) == (residual soil characterization for the foundation of a dam 5 km long).
- 2007-08 Preliminary design for the link between Pesche intersection at km 181+500 of the SS17 and the Lot 1 of the SSV Isernia – Castel di Sangro. Geotechnical Report. Bonifica SpA, Rome (Italy) == (5 viaducts and 3 tunnels).
- 2005 Slope stability in the area subject to excavation for the construction of 12 residential buildings at Colle Blu. Geotechnical Report. ITALCANTIERI srl, Pescara (Italy) == (instable slope of municipality area).
- 2004 Project for the construction of a chair-lift. Geotechnical Report. Aremogna-Pizzalto, Teramo (Italy) = (foundations on rock).
- 2003 Project for the consolidation, reclamation, and mitigation of hydro geological risk in the inhabited area of Campli (TE). Geotechnical report. Geos, L'Aquila (Italy) == (rocky ridge stability).
- 2003 Soil-structure interaction due to the presence of caves in the hypogeum: static and dynamic analysis. Historical Center of Chieti (Italy) == (natural caves instability by seismic motions).
- 2000 Geotechnical Project for deep excavation for residential building construction in downtown of Pescara. Clementina srl, Pescara (Italy) == (soil-structure interaction by deep excavation).
- 2000 Tunnel Construction Project of Fontanellato, Hydrologic and Geotechnical research, High Speed train from Milan to Naples, stretch from Milan to Bologna, 1st section – Lot1.6. Pizzarotti & Co. SpA, Parma (Italy) == (special compensated foundation).
- 2000 Final design for the rehabilitation of the interchange to Fondo Valle del Trigno of S. Salvo Autoport (CH) – IV Lot. Proger srl – Consorzio per lo Sviluppo Industriale di Vasto, Vasto (Italy) == (highway intersection and prefabricated tunnel).
- 1999 Preliminary and detailed design for the modernization of the railway network of South East Railways in the section: Francavilla Fontana – Lecce, Lecce – Otranto. Proger srl, Pescara (Italy) == (110 km of railways and little railway stations).
- 1999 Geotechnical design for the interventions of consolidation of the city centre related to the hypogeum system of S. Benedetto in Perillis. Cipe Resolution 18/12/96 – L.641/96. Municipality of S. Benedetto in Perillis, L'Aquila (Italy) == (instability of artificial shallow caves by seismic motions).
- 1998 Executive design of the rehabilitation works for the link between Crema and Piacenza following the collapse of the bridge on Adda river in the section between Castiglione D'Adda and Montodine. Connection ramps between NR 591 and the new bridge on Adda river – Proger srl – ANAS, Milano (Italy) == (approach ramps to a cable-stayed bridge of 400 m of length).

Data processing and prototyping

Programmer of VisualBasic and Excel-based scientific softwares.
Knowledge of FEM (Plaxis) and FDM (FLAC) softwares.
Owner of a user-license of Plaxis v.8 Professional.
Electronics prototyping for geotechnical instrumentation with Arduino®.

Affiliation

Member of Italian Geotechnical Association (AGI) and ISSMGE

I authorize the treatment of my personal data according to Italian D.Lgs.196/2003