CURRICULUM VITAE (CV)

Name and Surname:	Giuseppe Furlani
Date of Birth:	13th February 1970
Country of Citizenship/Residence	Italy / Italy

Education:

- 1996 - University of Ancona (Italy), **MSc in Civil Engineering**
- 2000 – University of Ancona (Italy), **PhD in Geotechnical Engineering**

Engineering Company:

SINTESI Engineers Associated (Furlani G. was co-founder with Guiducci G. and Lucarelli A.), since 2000.

General Presentation and skills overview

The experiences are those typical in Civil Engineering: Design, Consultancy and other services in the area of Structures and Infrastructures.

Particularly, several years of experience have been accumulated, in the area of Geotechnical and Foundations Engineering, in which they have a strong competency (over 20 years), working with the main Companies and Consultancies both in Italy and abroad.

He has over 20 Years of General Experience in Geotechnical Engineering, spent as associate of the Sintesi Studio which is a working group specialized in Geotechnical engineering (Eng. Furlani G., Guiducci G. and Lucarelli A.).

The know how in the field of Civil and Geotechnical Engineering covers most of the types of Civil Engineering Structure, particularly transport infrastructures, both highway and railway, industrial and civil buildings, slope stabilization works.

He participated to many Projects regarding the Design of Roads, Motorways, Highways, Bridges, Viaducts, Retaining Walls, Tunnels, addressing the following topics:

- programming and supervision of soil investigations, laboratory testings
- in- situ testing and monitoring
- geological and geotechnical modelling;
- design of foundations and underground works;
- assessment of slope stability and remedial works design;
- surveys on geological and rock mechanics,
- design and specification of rock engineering solutions;
- road pavement design;
- evaluation and assessment on construction materials.

The services that he has been carried out are both of Design and Design Consultancy, up to Construction Site assistance during the main phases of construction.

Education:

- 1996 - University of Ancona (Italy), **MSc in Civil Engineering**
- 2000 – University of Ancona (Italy), **PhD in Geotechnical Engineering**

Memberships of Professional Associations:

- Engineer Registration Board of the Rimini Province, membership nr.897/A since 2004, previously member of Engineer Registration Board di Pesaro from February 1997.

- Member of AGI (Italian Geotechnical Association).
- Member of ISMGE (International Society of Soil Mechanics and Geotechnical Engineering)

Language Skills (indicate only languages in which you can work): English (good in written, spoken, read), Italian (native speaker)

Selected publications in Numerical Analyses and Design for Geotechnical Engineering:

- P. Zuffi and **G. Furlani** (2013). "Doubling the tracks: the case of Arcisate-Stabio railway line". Symposium TU Seul 2013.
- L. Castellani, **G. Furlani**, A. Lucarelli (2013). "Complex piled raft foundation designs for Expo 2015 arcs viaduct". XXXIV CILAMCE (Brasil 2013).
- L. Castellani, **G. Furlani**, A. Lucarelli (2013). "Evaluation of railway grade crossing designs". XXXIV CILAMCE (Brasil 2013).
- G. Guiducci, A. Lucarelli, **G. Furlani**, R. Sorge, A. Carrettucci: "3-D Finite Element Modelling and Construction Aspects for vertical shafts in Metro C Rome" – TC28 - VIIth International Symposium on "Geotechnical Aspects of Underground Construction in Soft Ground" 16-18 May 2011, Roma.
- G. Guiducci, A. Lucarelli, **G. Furlani**, R. Sorge, E. Romani: "Deep excavation of Malatesta Station in Rome: design, construction and measures" – TC28 - VIIth International Symposium on "Geotechnical Aspects of Underground Construction in Soft Ground" 16-18 May 2011, Roma.
- Lucarelli, G. Guiducci, **G. Furlani**, R. Sorge: "Cap-Yield model with cohesion, back analysis of real excavations" – ITASCA 2nd International FLAC-DEM Symposium 14-16 February, 2011 Melbourne, Australia.
- G. Scarpelli, E. Sakellariadi & **G. Furlani**, 1999. "Longitudinal pipeline-soil interaction: results from field full scale and laboratory testing". Panel Contribution in the Proc. of XII
- G. Scarpelli, E. Sakellariadi & **G. Furlani**, 2002. "Longitudinal Interaction in the underground pipelines: an assessment of the interaction forces". Rivista Italiana di Geotecnica.
- **G. Furlani**, G. Scarpelli, A. Cappelletto, R. Tagliaferri, G. Furlani, G. Andrei. 1998. "Field full scale tests on longitudinal pipeline-soil interaction", I.P.C. (International Pipeline Conference), Calgary, Alberta
- G. Scarpelli, E. Sakellariadi & **G. Furlani**, 2002. "*Fenomeni di interazione longitudinale nelle tubazioni interrate: stima delle forze di interazione*". Rivista Italiana di Geotecnica.
- L. Castellani, **G. Furlani** & A. Lucarelli , "*Complex piled raft foundations designs for Expo 2015 Arcs Viaduct*", FLAC / DEM Symposium 2013, Hangzhou, P.R. China, october 22-24, 2013, http://www.itascacg.com/documents/complex-piled-raft-foundations-designs-for-expo-2015-arcs-viaduct
- L. Castellani, **G. Furlani** & A. Lucarelli , "*Evaluation of railway grade crossing designs*", FLAC / DEM Symposium 2013, Hangzhou, P.R. China, october 22-24, 2013, http://www.itascacg.com/documents/evaluation-of-railway-grade-crossing-designs
- A. Lucarelli, G. Guiducci, **G. Furlani**, R. Sorge: "*Cap-Yield model with cohesion, back analysis of real excavations*" - ITASCA 2nd International FLAC-DEM Symposium 14-16 February, 2011 Melbourne, Australia.

Know How

The know how in the field of Civil and Geotechnical Engineering covers most of the types of Civil Engineering Structure, particularly transport infrastructures, both highway and railway, industrial and civil buildings, slope stabilization works. These generally include:
In the feasibility stage and/or preliminary design:

- Program, Technical Specifications, assistance and interpretation of the results of: In situ testing, laboratory testing, monitoring instrumentation, monitoring plans of unstable areas.
- Supervision of the investigations, calculations and interpretations of the results and graphic presentation of investigations, aimed at creating the geotechnical model of the subsoil.
- Geotechnical and mechanical Characterization of soils and rock masses.

- Selection of the most appropriate solution taking into account technological, operational and durability aspects, as well as maintenance and economic constraints.

In the Design Stage:

- Design (Preliminary Final and Construction drawings) of foundation works, retaining structures, elevated structures. Study of the interactions structure-soil, settlement analysis.
- Technical Reports and Calculations; Design Drawings.
- Technical-Economic analysis of projects.
- Geotechnical Consultancy to the Designers of the structures related to the interactions soil-structure
- Detailed Technical Specifications for the execution of special foundation and retaining structures for soil treatment works.
- Site Works Design.

In construction and operational stage:

- Assistance to Works Supervision or to the Contractor with supervision of foundation works, earth movement, construction of Road-Rail embankments, etc..
- Monitoring System Design, Analysis of the behaviour of the Completed Works.
- Reception test for Acceptance of the Works.

Among the common works, it is recalled here:

- Shallow Foundations.
- Foundations on piles.
- Soil improvement (mechanical, consolidation, chemical).
- Rigid and Flexible Retaining Structures.
- Mined Tunnels, Cut&Cover Tunnels.
- Excavations under the GWT, dewatering.
- Soil and Rock bolting.
- Geotechnical and execution aspects in the design of roads, railways and Airports.
- Landslide and Toppling, stabilization works and environmental upgrading.
- Fluvial and Coastal Defence, erosion and scouring protection, waterproofing
- Waste Disposals.
- Reinforced Concrete and Steel Structures.
- Conventional and Mechanized Tunnelling.

Software equipment

In recent years Sintesi Group has set a substantial program of investment for buying hardware and software, as well as for courses for the specialized technicians.

The key personnel has acquired a great experience on the subject, and is specialized in numerical modelling of the various geotechnical engineering problems. Today, they are able to setup advanced numerical nonlinear modelling, even in 3D, with variable degrees of complexity, in accordance with the client's requirements.

The Studio possesses the best geotechnical software currently available in international context. They main codes owned are listed hereinafter.

- FLAC 2D rel 7.0 - ITASCA (USA)
- FLAC 3D rel 7.0 - ITASCA (USA)
- UDEC 2D rel 5.0 - ITASCA (USA)
- PLAXIS 2019 version
- PLAXIS 3D TUNNEL V2.0
- PLAXIS 3D FOUNDATION V2.0
- PARATIE 2019 - Harpaceas MI - (Diaphragm walls analysis, N.3 user licences).

- SLIDE2 2019 (global stability of slope by slice method, with eventual soil reinforcement, statistical approach) – Rocscience Toronto Canada.
- GROUP 2019 – Analysis of Piles – Ensoft – Austin Texas.

Main design programs internally developed:

- MAP - Matrix Analysis of Piles (linear and nonlinear analysis of pile groups)
- POZ (nonlinear analysis of shaft foundations);
- PAL (bearing capacity of piles);
- APAL (stress-strain analysis of a pile subject to axial loads);
- LPAL (stress-strain of piles subject horizontal froces);
- FOND (bearing capacity and settlements of shallow foundations);
- CEDIM (settlement analysis of shallow foundations and embankments);
- WinLinCar (stress-strain analysis of deep tunnels with the method of characteristic lines with probabilistic approach) (ing. Lucarelli);
- MURI (analyses of equilibrium conditions and actions on gravity retaining structures in line with the new Italian regulation on Construction NTC 2008) (ing. Furlani);

The studio is able of developing software and Worksheets (Excel and Mathcad) for specific Foundation and Geotechnical Engineering.

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Aspects of Geotechnical Engineering	
DATES & PLACE	2019-2020 – Milan - Verona (Italy)
CLIENT	CepavDue (BS, Italy) – Company for the Construction of High Capacity/Speed Railway Track from Brescia To Verona.
PROJECT TITLE	**Final and Detailed Design of the Geotechnical works** (geotechnical design of the embankments and soil improvement in order to reduce the settlements on soft soil and to mitigate the seismic liquefaction risks.
POSITION HELD / ACTIVITIES:	Site Supervision on geotechnical investigations, detailed design, on site assistance during construction.
DATES & PLACE	2019 – Turin (Italy)
CLIENT	Neosia S.p.A. (Milan, Italy) – Company on charge for the Prelimnary Design of Subway Metro Turin Line 2.
PROJECT TITLE	**Preliminary Design of the Subway Metro Turin Line 2** (general geotechnical study along the track, design of the TBM structural liner, analyses of the settlement induced by the TBM excavation and building risk assessment).
POSITION HELD / ACTIVITIES:	Geotechnical design consultancy.
DATES & PLACE	2019 – Guyana (Central America)
CLIENT	Politecnica S.c.a.r.l. (Modena, Italy) – Company on charge for the Feasibility Study and Detailed Design for the Ministry of Public Infrastructures of Guyana.
PROJECT TITLE	**Design of the new Bridge crossing the Demerara Stream in Wismar** (Site Supervision on geotechnical investigations, General Geotechnical study, Foundation Design of the Bridge, Earth Works for embankments and road pavement).
POSITION HELD / ACTIVITIES:	Geotechnical Key Expert on the Design Group on charge.
DATES & PLACE	2019 - 2020 – Belize (Central America)

CLIENT	Politecnica S.c.a.r.l. (Florence and Modena, Italy) – Company on charge for the Feasibility Study and Detailed Design for the Ministry of Works of Belize.
PROJECT TITLE	**Design for the rehabilitation of Vista del Mar Junction from miles 8.5 to 24.5 of the Philip Goldson Highway, Belize** (Site Supervision on geotechnical investigations, General Geotechnical study, Earth Works for embankments and road pavement).
POSITION HELD / ACTIVITIES:	Geotechnical Key Expert on the Design Group on charge.
DATES & PLACE	2019-2020 - Italy
CLIENT	ITALFERR S.p.A.
PROJECT TITLE	New bridge with arche on the Isarco River along the new railway Verona-Brennero (Italy).
POSITION HELD / ACTIVITIES:	**Geotechnical Engineering Services** for **Defintive Design** of Foundations, excavations and retaining structures (bridge with arc L=200 m).
DATES AND PLACE	2019 – Piacenza and Cuneo - Italy
CLIENT	KELLER Foundation – Italy (Construction Company for Special Foundation)
PROJECT TITLE	**Large Industrial Plants: Lyreco (Piacenza) and Pasta Factory Rana (Cuneo)**.
POSITION HELD / ACTIVITIES:	**Detailed Design of soil improvement for Foundation.**
DATES AND PLACE	2018 – Chile
CLIENT	ASTALDI S.p.A. Rome – Italy for ESO (European Organisation for Astronomical Research in the Southern Hemisphere)
PROJECT TITLE	**E-ELT Extremely Large Telescope** on Cerro Armazones - **Atacama (Chile)**. Consultancy service for the detailed design of foundations on heterogeneous rock mass.
POSITION HELD / ACTIVITIES:	**Assistant to Key Expert (Geotechnical Engineer – Studio Sintesi) in charge for** programming, supervision during the execution and interpretation of on-site geophysical investigations (tomographic refraction and reflection methods). Geotechnical design, 3-D modelling of foundation and heterogeneous rock mass (Flac 3-D) for soil-structure interaction and settlement analyses.
DATES AND PLACE	2017 - 2018 - Belize (Central America)
CLIENT	Politecnica Ingegneria ed Architettura for the Ministry of Works of Belize
PROJECT TITLE	Coastal Highway Design (Belize). Consultancy service for the Updating of a Feasibility Study, Preliminary and Detailed Design for the Upgrading of the Coastal Highway 58 km.
POSITION HELD / ACTIVITIES:	**Key Expert (Geotechnical Engineer – higway pavement designer)** in charge for programming, supervision during the execution and interpretation of on-site and laboratory geotechnical investigations. Geotechnical design of the bridges foundations and road embankments. Design of road pavement.
DATES AND PLACE	2017 - 2019 – Genova (Italy)
CLIENT	Spea S.p.A. Engineering Company for Italian Highway (ASPI)
PROJECT TITLE	Upgrading of the Highway system A7-A10-A12 in Genova, Italy (Gronda).
POSITION HELD / ACTIVITIES:	**Geotechnical Engineering Services** for the Detailed Design of foundation of the Viaduct Genova (about 740 m length, with central span length of 240 m by arc structure) and other 7 new viaducts. Geotechnical Advising for design of the foundations.
DATES AND PLACE	2017 - 2019 – Botswana (Southern Africa)
CLIENT	Seteco s.r.l. Engineering Company on Charge for Detailed Design by Itinera S.p.A.

	Construction Company
PROJECT TITLE	New Okavango River Bridge (Botswana). Viaduct with 2 abutments, 18 Piers and 2 Towers with a total length of 1160 meters.
POSITION HELD / ACTIVITIES:	**Geotechnical Engineering Services** for the Detailed Design of foundation of the Viaduct. Geotechnical Advising for design of the foundations, assistance pile load tests carriedout by Ostemberg Cells, design of dewatering system for the excavation under water level, assistance, assistance for the non-compliances during pile execution.
DATES AND PLACE	2017 - 2020 – Reggio Calabria (Italy)
CLIENT	Proger S.p.A. as Company in charge for Detailed Design
PROJECT TITLE	New Road linking the lands area Cinquefondi – San Giorgio Morgeto (Reggio Calabria) .
POSITION HELD / ACTIVITIES:	**Geotechnical Engineering Services** for programming, supervision during the execution and interpretation of on-site and laboratory geotechnical investigations. Geotechnical design of the bridges foundations and earth works for the new road.
DATES & PLACE	2018 - Taranto (Italy)
CLIENT	Trevi S.p.A. (FC, Italy)
PROJECT TITLE	Enlargement of existing landfill for hazardous waste. **Final and Detailed Design of the Geotechnical works** (geotechnical studies, retaining structures, embankments with soil reinforcement, etc
POSITION HELD / ACTIVITIES:	Site Supervision on geotechnical investigations, design load test, on going acceptance control of the works (i.e. anchorage load tests).
DATES & PLACE	2017-2018 – Porto Marghera (Venice, Italy)
CLIENT	Trevi S.p.A. (FC, Italy)
PROJECT TITLE	Environmental Putting in Safe of the contaminated area by impermeable Plastic diaphragm wall and capping. **Assistance for Final and Detailed Design of the Geotechnical works** (geotechnical studies, border embedded walls, capping, proofing systems, etc
POSITION HELD / ACTIVITIES:	Site Supervision on geotechnical investigations, geotechnical works, on going acceptance control (i.e. hydraulic pumping tests).
DATES & PLACE	2017-2018 – Milan (Italy)
CLIENT	SPS (FC, Italy)
PROJECT TITLE	Detailed Design of New Orthopedic Hospital "Galeazzi": tower with 16 floors above ground level. **Assistance for Final and Detailed Design of the Foundation** (geotechnical studies, design of piles as settlement reducer below concrete slab.
POSITION HELD / ACTIVITIES:	Geotechnical Advising for Design of Foundation. FDM 3d Analyses carried out by Flac3d Code.
DATES & PLACE	2017 - Forlì (Italy)
CLIENT	Anas S.p.A. Rome (Italy)
PROJECT TITLE	Geotechnical and structural design activities of the new tangential road S.S. 727. Design of retaining structures along the road and n.2 artificial tunnels.
POSITION HELD / ACTIVITIES:	**Geotechnical Engineering**: Responsible for the geotechnical characterization and design of the geotechnical structures.
DATES & PLACE	2017 - 2019 - Vicenza (Italy)
CLIENT	Proger S.p.A. Rome (Italy)

PROJECT TITLE	Final Design of the new tangential road. General geotechnical studies. Design of retaining structures and two under-passes with excavation under water level. Design of the pile foundation of the bridge.
POSITION HELD / ACTIVITIES:	**Geotechnical Engineering**: Responsible for the geotechnical characterization and design of the geotechnical structures.
DATES & PLACE	2017 - 2018 – A13 Bologna - Padova (Italy)
CLIENT	SPEA S.p.A. Milano (Italy) – Italian highway company.
PROJECT TITLE	Geotechnical Design for the enlargement of the carriageway from two to three lanes each direction. Foundation design of 47 over-crossing bridges. Design of the retaining walls on soft soil (by soil improving).
POSITION HELD / ACTIVITIES:	**Geotechnical Engineering**: Responsible for the geotechnical activities.
DATES AND PLACE	2016 - 2017 - **Belize**
CLIENT	Politecnica Ingegneria ed Architettura for the Ministry of Works of Belize
PROJECT TITLE	Detailed Design of Haulover Bridge Replacement (funded by CDB) over the Belize River. Existing Bridge is a steel structure built in 1947 across the Belize River, featuring a two lane carriageway 5m wide, founded on reinforced abutments and four intermediate reinforced concrete piers. The project consists in the design of a new Bridge. After identification of three alternatives (Girder Bridge, Tied-Arch Bridge, Cable-Stayed Bridge), the Tied-Arch type was chosen.
POSITION HELD / ACTIVITIES:	**Key Expert (Geotechnical Engineer) in charge of** Soil and geotechnical investigations, programming and supervising geotechnical boreholes and tests, Geological and Geotechnical Modelling, Design of Foundations.
DATES & PLACE	2014-2015 - Moscow (Russia)
CLIENT	Geodata S.p.A. (TO) - Impregilo S.p.A. (MI)
PROJECT TITLE	Geotechnical Consultancy for the uplift of an industrial building due to a piping collapse
POSITION HELD / ACTIVITIES:	**Geotechnical Engineering**: Responsible for the geotechnical characterization. Site Supervision on geotechnical investigations: geotechnical boreholes and Penetrometer Test with piezocone
DATES & PLACE	2013-2014 - Savona (italy)
CLIENT	Property San Paolo S.p.A.
PROJECT TITLE	Geotechnical Consultancy for Restoration Design of the historical building hospital San Paolo.
POSITION HELD / ACTIVITIES:	**Geotechnical Engineering**: Responsible for the geotechnical characterization. Geotechnical engeneering services for the design of the foundation soil improvement by jet-grouting treatment (about 1000 jet-grouting columns DN 800 mm) Technical Supervision on Site of the works: geotechnical investigations, preliminary trial tests, jet-grouing execution, true scale load test, etc.
DATES & PLACE	2015-2016 - Cervia (Ravenna, italy)
CLIENT	CEAR Soc. Coop. Cervia (Ravenna, Italy)
PROJECT TITLE	Road intersection between SS16 and SS71bis by multilevel road junctions
POSITION HELD / ACTIVITIES:	**Geotechnical Engineering**: Engineering Services for Final and Detailed Design of the retain structures both provisional and permanent type. Technical Supervision on Site of the works: technical assistance for Building Company, Corrective Design Action following the Non Compliance of the works carried out.
DATES & PLACE	2013-2015 - Colombia
CLIENT	CEV Consorcio Estructuración Vial – **Bogotà Colombia**
PROJECT TITLE	Rehabilitation, improvement and construction of 2200 km of roads in **Colombia**

POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Finalizing projects for concessions as** "Asesor de geotecnia" responsible for the geotechnical, foundation design for more than 100 bridges and slopes stability
DATES & PLACE **CLIENT** **PROJECT TITLE** **POSITION HELD / ACTIVITIES:**	2013-2014 - Colombia PROGIN COLOMBIA – **Bogotà Colombia** Replacement and/or construction of 13 bridges on routes in the departments of Boyacá, Casanare and Meta in **Colombia** **Geotechnical Engineer** in charge of **Final Design,** "Asesor de geotecnia", responsible for the geotechnical, bridges foundation design
DATES & PLACE **CLIENT** **PROJECT TITLE** **POSITION HELD / ACTIVITIES:**	2012-2013 – Italy STS S.p.A. – Bologna, Italy Expo 2015 – Essential works of accessibility – Viaducts and Arc Bridges **Geotechnical Engineer** in charge of **Final Design** – Geotechnical consultancy for foundations of viaducts and arc bridges. Analysis of foundations using FDM 3D modeling.
DATES & PLACE **CLIENT** **PROJECT TITLE** **POSITION HELD / ACTIVITIES:**	2012-2013 – Istanbul (Turkey) IC Ictas Insaat Sanayi ve Ticaret AS - ASTALDI S.p.A Northern Marmara Motorway - third bridge over the Bosphorus – Istanbul (Turkey). **Geotechnical Engineer** in charge of **Geotechnical Engineering support** at the offices of IC & Astaldi S.p.A.
DATES & PLACE **CLIENT** **PROJECT TITLE** **POSITION HELD / ACTIVITIES:**	2012-2013 - Maroc CLSM Grands Travaux – G I E Casablanca – MOROCCO High speed Line between Tanger and Kenitra, north section – Maroc, Lot 5 Viaduct of Loukkos, Lenght = 2400 m, 41 spans **Geotechnical Engineer** in charge of **Consultancy in construction site**, on the geotechnical aspects for the execution of foundation bored R.C. piles and temporary works for the construction site of the piles in the river bed. Piles diameter=1600 mm; max length=70 m, upper part in normal-consolidated soil thickness = 20 to 50 m
DATES & PLACE	2017 - Bonorva (SS Italy).
CLIENT	**ANAS S.p.A.** [*National Road Authority*]
PROJECT TITLE	Geotechnical and structural design activities. S .S. 131 – Rehabilitation and new construction from km 108 + 300 to km 209 + 500. Resolution of critical nodes - at Bonorva Nord and Bonorva South interchanges.
POSITION HELD / ACTIVITIES:	**Geotechnical and structural Engineer.** Support concrete walls and diaphragm walls, shallow reinforcement of earth slopes
DATES & PLACE **CLIENT** **PROJECT TITLE** **POSITION HELD / ACTIVITIES:**	2012-2013 - S. Giuliano Milanese (MI). SAIPEM S.p.A Geotechnical design activities. Railway Shah-Habshan-Ruwais – SHA (UAE). **Geotechnical Engineer**
DATES & PLACE **CLIENT** **PROJECT TITLE** **POSITION HELD / ACTIVITIES:**	2012-2013 – Verona (VR) - Italy KELLER Fondazioni s.r.l. Cementeria Italcementi di Rezzato (BS). **Geotechnical Engineer** in charge of **Final Design** – Soil Improvement for the foundation of new pre-heating tower and building press.
DATES & PLACE	2011-2013 - (Fano - PU) - Italy

CLIENT	Enereco S.p.A.
PROJECT TITLE	Structural survey of a plant with a high pollution potential (Gela, Italy) Syndial
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer:** design and management of the survey/monitoring system (editing of periodical reports)
DATES & PLACE	2011-2013 - (Rome) - Italy
CLIENT	Secit S.p.A. (Gesenu Group)
PROJECT TITLE	Waste treatment and composting plant, Ozieri (SS, Sardinia, Italy).
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Final Design** - Consulting and design of geotechnical foundation
DATES & PLACE	2011-2012 - Italy
CLIENT	MILANO SERRAVALLE ENGINEERING s.r.l.
PROJECT TITLE	Artificial Tunnel (sub-way) of Cascina Gobba (Milan).
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Final Design** for Structures of artificial tunnel (under-pass) and retaining walls of the access roads
DATES & PLACE	2010-2012 - Italy
CLIENT	Salvatore MATARRESE S.p.A. (Bari)
PROJECT TITLE	Highway A14 (third lane) – Artificial Tunnel named Corva (Porto S.Elpidio, AN).
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Final Design** for Structures of Artificial Tunnel "Corva" (top-down method with twin tunnel) and entrance portals
DATES & PLACE	2012-2015 - Italy
CLIENT	CESI - Imola (BO).
PROJECT TITLE	New bridge with two arches on the Ticino River along the SS 4949, Vigevano (PV, Italy).
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Final Design** of Foundations and retaining walls (bridge with two arcs L=2 x 150 m and lateral viaducts)
DATES & PLACE	2011-ongoing - Italy
CLIENT	SINA S.p.A. (Milan), B&C Associati (Milan) – SETECO Ingegneria
PROJECT TITLE	External Tangential Road of Milan (TEM, Lot C), Milan, Italy.
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Final Design of** Foundations of Viaducts on the Lambro River
DATES & PLACE	2011 – Milan (Italy)
CLIENT	Politecnica Ingegneria ed Architettura, Modena
PROJECT TITLE	External Tangential Road of Milan (TEM), Milan, Italy
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Final Design** of retaining walls regarding excavations below water table: MU101, MU102, MU103 and top-down underpass AG04.
DATES & PLACE	2006-2011 – Rome (Italy)
CLIENT	Metro C s.c.p.a. – Roma (Public Authority for Metro line C)
PROJECT TITLE	Various Contracts for the Project of Rome underground Metro line "C"

POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Final Design of: **- Trunks T2, T3;** Programming and supervision of the execution and interpretation of in situ and lab testing. Geotechnical characterization, settlement due to mechanized Tunnelling, verification of support of excavations for archaeological investigations. **- Station Fori Imperiali**: 2D modelling for analyses of stress induced on the supporting elements for provisional excavations (depth 31 m) **- Stations of Trunks T4 and T5**: 2D FEM Modelling for 9 underground stations (depth 22-26 m), stress-strain analysis in the ground and on the structures, stability verification of the bottom of the excavation, filtration analysis. Monitoring System for the stations. **- Trunk T5 ventilation shaft** n.5, 4: 2D & 3D FEM Modelling for shafts, stress-strain analysis on the ground and the structures, support structures and bottom plug design, hydraulic test, verification of the excavation shape due to the TBM excavation **- Trunks T6a, T7**, 3 underground stations and one cut & cover tunnel: FEM 2D modelling for stations (excavation depth of 20-24 m), stress-strain analysis of the ground and in the structures, stability check of the excavation bottom, filtration analysis. Design of the monitoring System for the stations. **- Trunks T4 T5 T6a, T7**: Monitoring System for the stations during works; interpretation of measured data and application of the observational approach.
DATES & PLACE	2010 – Roma - Italy
CLIENT	Termini s.c.a r.l
PROJECT TITLE	Termini Railway station
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Final Design** – Consultancy for the execution of design and experimental verification concerning foundation micropiles and the provisional support of the excavation
DATES & PLACE	2010 - Kazakhstan
CLIENT	Enereco S.p.A. (Fano - PU)
PROJECT TITLE	Tengiz Chevroil – Kazakhstan ENERECO CASPIO LLP.
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Preliminary Design** and Geotechnical support on the design of a Piling Study
DATES & PLACE	2009-2010 – Stabio (Italy)
CLIENT	PROGIN S.p.A. - Roma
PROJECT TITLE	Modernization of the Railway Arcisate – Stabio (Varese)
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Final Design and Shop Drawings for the Contractor** New Railway Arcisate-Stabio, section between ponte Olona and state border. Geotechnical Consultancy to the Final Design of Foundations and retaining structures of 2 mined tunnels
DATES & PLACE	2009-2010 – Catania (Italy)
CLIENT	TREVI s.p.a. - Cesena
PROJECT TITLE	New IKEA Store – Catania
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Construction Design** – design of the piled foundations (CFA technology) – piles D600 and D1000
DATES & PLACE	2009-2010 – Formia (Italy)
CLIENT	Politecnica Ingegneria ed Architettura, Modena
PROJECT TITLE	Alternative route for the SS7 Appia within the completion of the coastal corridor - A.N.A.S. **Final Design**
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Cooperation to the Design of the twin tube mined tunnels (Costamezza 2.7 km - Campese 0.6 km) and of the startups.
DATES & PLACE	2009 – Manfredonia (Italy)

CLIENT	Invitalia Reti s.p.a. (ex SI Sviluppo Italia s.p.a.)
PROJECT TITLE	Permanent Safety Setup of the Garbage Disposal Units of "Pariti RSU" e "Conte di Troia" (Comune di Manfredonia, Puglia)
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Final Design** of the waterproofing with bottom treatment, round waterproofing and top closing cap
DATES & PLACE	2008-2009 – S. Giuliano Milanese (Italy)
CLIENT	TREVI s.p.a. - Cesena
PROJECT TITLE	New IKEA Store– S. Giuliano Milanese
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Final Design** – design of the piled foundations (CFA technology) – around 1020 piles of 21 m depth
DATES & PLACE	2008-2009 - Italy
CLIENT	PROGIN S.p.A. - Roma
PROJECT TITLE	Doubling of the Railway Parma – La Spezia between the stations of Solignano and PDM di Osteriazza (PA833) "Pontremolese"
POSITION HELD / ACTIVITIES:	Cooperation for the Design of the Foundations of the Viaducts, Retaining Structures, and embankments
DATES & PLACE	2008-2009 – Pisa (Italy)
CLIENT	TREVI s.p.a. - Cesena
PROJECT TITLE	New IKEA Store – Pisa
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Final Design** – design of the piled foundations (CFA technology) – more than 15'000 ml piles with various diameters (∅ 500, 600, 1000 e 1200 mm).
DATES & PLACE	2008 – 2009 – Rome (Italy)
CLIENT	OBEROSLER cav. Pietro S.p.A. – Bolzano
PROJECT TITLE	Highway of the Great Ring Road of Rome. Upgrade to 3 lanes for each direction – North Western Quarter - from km 11+250 to km 12+650. Completion of internal lane.
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Design of the Structures of Cut & Cover Tunnel "Cassia" and the retaining structures for the sections in excavation
DATES & PLACE	2008-2009 - Italy
CLIENT	PROGIN S.p.A. - Roma
PROJECT TITLE	Large Lot n. 2 of the Road Axis "Marche–Umbria"; works for the completion of the expressway Perugia-Ancona on the section "Pianello-Valfabbrica" of the Road SS318, of the sections "Fossato di Vico-Cancelli" and "Albacina-Serra S.Quirico" of the Road SS 6 and construction of the "Pedemontana delle Marche" Fabriano-Muccia-Sfercia
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of assistance for the Design of the Foundations of the Viaducts, Retaining Structures, Cut&Cover Tunnels, and mined tunnels
DATES & PLACE	2008-2009 - Modena - Italy
CLIENT	POLITECNICA s.c.a r.l.
PROJECT TITLE	Underground Parking "Novi Sad" Area ex Foro Boario - Modena. **Final Design**
POSITION HELD / ACTIVITIES:	Cooperation to the Design – 2D Elastoplastic Modelling for stability of retaining Diaphragm walls and excavation slopes; filtration analysis for dewatering. Dimensions 120x100 m, 1 underground level.
DATES & PLACE	2007-2009 - Malta
CLIENT	Ministry of Public Works, Restoration Unit – Malta - ATI con Politecnica soc. coop. Modena
PROJECT TITLE	Strengthening of the foundations and structural repair of the historical walls of the ancient city of M'dina (Malta) **Final Design and Works Supervision**

POSITION HELD / ACTIVITIES:	Design of the Foundations' stabilization works, geotechnical investigations, monitoring plan, tender documents preparation, assistance to the administration for the works adjudication, technical direction of the works, reception test and acceptance test.
DATES & PLACE	2005-2008 - Italy
CLIENT	MAIRE Engineering s.p.a. (TO)
PROJECT TITLE	Highway Bologna-Firenze - **Construction Design** - IN15 pk 16+350 -16+500. Laurenziano Landslide
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Design of the stabilization works interfering with the High Speed line with 38 Dwall panels of dimensions (6,8 x 1,2 m) and 30 m depth
DATES & PLACE	2005-2008 - Italy
CLIENT	SPEA Ingegneria Europea s.p.a.. - Roma
PROJECT TITLE	Highway A14 Cattolica – Senigallia, Final Design Stage 1 and 2. Construction of the 3rd lane
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of • Section Cattolica – Senigallia (pk 145+539 to 194+800): Design of the Foundations for the upgrade of the main works: 15 viaducts, 15 overpasses, Cut&Cover Tunnel • Section Cattolica – Fano (pk 145+539 to 173+800): Design of the retaining structures and check of the stability of the embankments
DATES & PLACE	2005-2008 - Italy
CLIENT	MAIRE Engineering s.p.a. (TO)
PROJECT TITLE	Highway A1 Bologna-Firenze Upgrade of the Hill Crossing between Sasso Marconi and Barberino del Mugello. **Final Design** of Lot 5a
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Foundations Design (Shallow-on piles) for 10 viaducts. Stabilization of the sliding movement M3 (487.000 €).
DATES & PLACE	2005-2008 Forlì (Italy)
CLIENT	OBEROSLER cav. Pietro S.p.A. – Bolzano
PROJECT TITLE	System Expressway Forlì – Expressway East – 1° lot (≈ 2 km). **Construction Design**
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Design of ground strengthening below the road embankments with height up to 10 m (with CFA Auger piles – 60.000 m), foundations of the viaducts, retaining structures for an underpass under the water table (cut&cover + protected trenches)
DATES & PLACE	2005-2007 - Italy
CLIENT	MAIRE Engineering s.p.a. (TO)
PROJECT TITLE	High Speed Railway Bologna-Firenze - **Construction Design**
POSITION HELD / ACTIVITIES:	Cut&Cover Structure TR02, (zona Laurinziano, pk 16+180 – 16+280) Design of the Structures and of the Foundations, study of the sliding forces.
DATES & PLACE	2004-2007 - Italy
CLIENT	PROGIN S.p.A. - Roma
PROJECT TITLE	Doubling of the Railway Bologna-Verona – Lotti 3 (pk 31+500 – 46+400) and Lotto 4 (pk 58+600 – 79+300 – escluso viadotto Po) Contractors Baldassini-Tognozzi, Locatelli **Construction Design** (circa 50 km)
POSITION HELD / ACTIVITIES:	Cooperation to the design of the foundations for the viaducts Panaro and Canal Bianco, Cut&Cover Tunnels and protrected excavations for underpasses SL01 SL02 SL03, embankments on ground stiffened with unreinforced piles
DATES & PLACE	2005 – 2006 – Forlì (Italy)
CLIENT	Politecnica Ingegneria ed Architettura, Modena

PROJECT TITLE	System Expressway Forlì – Ringdoad lot 1° & 2° (≈ 3 km). **Final Design**
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Geotechnical Consultancy for embankments widening; cut&cover with Diaphragm walls in RC . (L ≈ 1 km); foundation piles for foundations of viaducts, bridges, overpasses.
DATES & PLACE	2004-2006 - Italy
CLIENT	SNAMPROGETTI S.p.A. - S. Giuliano Milanese (MI)
PROJECT TITLE	High Speed Railway Milano-Verona
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of **Final Design** - Geotechnical Characterization and Geotechnical Design of the Foundations of the Viaducts, overpasses, underpasses, Cut&Cover, embankments. km 68 to km 81, connection Brescia Ovest
DATES & PLACE	2004-2005 – Messina (Italy)
CLIENT	Consorzio Ponte Stretto di Messina (Astaldi) - Roma
PROJECT TITLE	**Participation in the international tender for the final design and implementation**
POSITION HELD / ACTIVITIES:	Partnership in the study for the improvement proposals with regard to foundations Terminal Sicily + Viaduct Pantano; Entrances to tunnels and works connecting in Calabria side
DATES & PLACE	2004-2005 - Lybia
CLIENT	IDT International Drilling Tecnology – R.S.M.
PROJECT TITLE	Corp of Engineers - Tripoli Libya Final Design of mined Tunnels for material stacking, underground rooms for distribution, access ramps
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Design of the temporary and final lining of the mined tunnels; retaining structures design (piles) for underground spaces and the cover. Multimedia presentation of the project. Training for 3 Lybian Engineers.
DATES & PLACE	2004-2005 – Sarsina (Italy)
CLIENT	S.C.O.T. Costruzioni s.r.l. – Mercato Saraceno (FC)
PROJECT TITLE	Comune di Sarsina (FC) - **Final Design** for the strengthening of a landslide (degraded rock) that took place during construction of the residential area Pian dei Lupini
POSITION HELD / ACTIVITIES:	Design of the retaining works (RC walls on micropiles) drainage and surface restoring
DATES & PLACE	2005 – Milan (Italy)
CLIENT	PIRELLI & C. Real Estate Project Management s.p.a. - Milano
PROJECT TITLE	Upgrade of the area in via Rizzoli 2, Milano. Tower 80 m high
POSITION HELD / ACTIVITIES:	**Final Design** – assessment of the settlement (absolute and differential), interaction with adjacent buildings, shallow foundation
DATES & PLACE	2005 - Italy
CLIENT	SPEA Ingegneria Europea s.p.a.. - Roma
PROJECT TITLE	Highway A4 Milano Est - Bergamo **Final Design** for **Construction of the 4th lane**.
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Design of the Foundations on piles and micropiles for 9 overpasses
DATES & PLACE	2005 - Italy
CLIENT	Lombardi Reico s.r.l. - Milano
PROJECT TITLE	1 Underground Parking in Piazza Meda (MI) **Final Design** 2 Underground Parking in via Manuzio (MI) **Final Design**

POSITION HELD / ACTIVITIES:	1 - Cooperation to the design of the retaining works: Diaphragm walls in RC with intermediate support by active anchoring. Dimensions 85 x 35 m, 5 underground floors. 2 - Design of the retaining structures. Diaphragm walls in RC with intermediate support by active anchoring on 3 sides of the excavation, and with steel beams on one side (metro side). Dimensions 85 x 21 m, 5 underground floors
DATES & PLACE **CLIENT** **PROJECT TITLE** **POSITION HELD / ACTIVITIES:**	2003-2005 - Italy TREVI s.p.a. - Cesena • Underground Parking in Piazza dei Partigiani – Alassio (SV) **Final Design** • Underground Parking in area Giardino cav. Vittorio Veneto – Alassio (SV) **Final Design** Dimensions 120x40 m, depth of 10 m, GWT 2 m below GL. Design of the dewatering system, monitoring instruments
DATES & PLACE **CLIENT** **PROJECT TITLE** **POSITION HELD / ACTIVITIES:**	2001 – 2005 - Italy AQUATER S.p.A. - S. Giuliano Milanese (MI) High Speed Railway Milano-Bologna - **Construction Design** Geotechnical Design of the Viaduct Foundations; Geotechnical Design of the embankments; Geotechnical Design of overpasses and underpasses; Geotechnical Design of Cut&Cover Structures
DATES & PLACE **CLIENT** **PROJECT TITLE** **POSITION HELD / ACTIVITIES:**	2003-2004 - Italy PROGIN S.p.A. - Roma Highway connection A3-A16 on the path Lauria – Candela, 173 km. **Preliminary Design** Environmental Impact Study **Geotechnical Engineer** in charge of Cooperation to the design of the foundations for the viaducts and the retaining structures for the Cut&Cover Tunnels; stabilization of the sliding movements. Direction of the Investigations for in situ and laboratory testing
DATES & PLACE **CLIENT** **PROJECT TITLE** **POSITION HELD / ACTIVITIES:**	2003-2004 - Italy PROGIN S.p.A. - Roma Highway Caserta-Benevento, 50 km. **Preliminary Design,** Environmental Impact Study **Geotechnical Engineer** in charge of Cooperation to the design of the foundations for the viaducts and the retaining structures for the Cut&Cover Tunnels; stabilization of the sliding movements. Direction of the Investigations for in situ and laboratory testing
DATES & PLACE **CLIENT** **PROJECT TITLE** **POSITION HELD / ACTIVITIES:**	2003-2004 – Rome (Italy) OBEROSLER cav. Pietro S.p.A. – Bolzano Highway Ring of the Great Ring Road of Rome. Upgrade to 3 lanes on the Northwestern Sector (km 3+700 - 6+000). **Construction Design** **Geotechnical Engineer** in charge of Design of the strengthening of the ground (with deep soil mixing– circa 70.000 m) for some sections of embankment widening, for switches, wall foundations and earth reinforcement
DATES & PLACE **CLIENT** **PROJECT TITLE** **POSITION HELD / ACTIVITIES:**	2003 - Italy BONIFICA S.p.A. - Roma High Speed Railway Roma-Napoli - **Final Design** Geotechnical Design for the alternative route "Tratta Sospesa, Nodo di Napoli – 2° lotto funzionale, V Sottotratta". VI Napoli, G.A. S. Chiara, VI Asse Mediano, 2 Overpasses, Underpasses, Water Supply pipelines. VI 80 Secchia trunks A, C VI 74 Brennero trunks A, B, C and others

DATES & PLACE	2003 - Italy
CLIENT	SEDITER s.a.s. - Napoli
PROJECT TITLE	International corridor E78 S.G.C. Grosseto-Fano upgrade to 4 lanes on the section Grosseto-Siena from km 30+040 to km 41+600 – lotti 5 6 7 8. A.N.A.S. **Final Design**
POSITION HELD / ACTIVITIES:	Cooperation to the design of the mined tunnels (Casal di Pari 1.6 km - Poggio Terriccio 0.5 km – Greppoli 0.2 km) and of the startups; general geotechnical consultancy.
DATES & PLACE	2002 – 2003 - Italy
CLIENT	PROGIN S.p.A. - Roma
PROJECT TITLE	Road n. 38 (Valtellina - SO) – Lot 3: from Tresivio to Stazzona (≈ 17 km). **Final Design**
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Cooperation to the design of the foundations of the viaducts and retaining structures for cut&cover works and the startup of mined tunnels.
DATES & PLACE	2002 – 2003 - Italy
CLIENT	Tecnogeo (CT) - PROGIN S.p.A. - Roma
PROJECT TITLE	Completion of the road axis Catania-Siracusa with Highway characteristics between Passo Martino and Catania and km 130+400 of Expressway 114. **Final Design**
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of General Geotechnical Report, cooperation on the design of the foundations for the viaducts and embankments
DATES & PLACE	1998-2002 – S. Petersbourg (Russia)
CLIENT	GEODATA S.p.A. - Torino
PROJECT TITLE	Underground line of S. Petersburg (Russia). **Final Design** for 2 bypass tunnels on Line 1 (Lesnaia - Mougestva) presently collapsed.
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Geotechnical Consultancy for the 60 m depth tunnels in soil under the GWT. Site Supervision, geotechnical Investigations Supervision (investigations by Fugro)
DATES & PLACE	2000-2002 - Italy
CLIENT	PROGIN S.p.A. - Roma
PROJECT TITLE	Highway Salerno-Reggio Calabria. Upgrade to section type 1A CNR/80, **Final Design** of Section Serre-Mileto (Vibo Valenzia)
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Cooperation to the design of the foundations for the viaducts and the retaining structures, one Cut&Cover structure, mined tunnels startups and embankments
DATES & PLACE	2000-2002 - Italy
CLIENT	SECIT s.p.a. (MI)
PROJECT TITLE	Agricultural Plant - Maccarese (Roma) **– Final Design**
POSITION HELD / ACTIVITIES:	Design of the foundations, of the inner and outer pavement on soil with thick torbaceous layers (4-15 m)
DATES & PLACE	2000-2001 - Italy
CLIENT	6^ DIREZIONE GENIO MILITARE - Bologna
PROJECT TITLE	Building to be used as helicopter hangar and helicopter maintenance team housing - (Rimini RN)
POSITION HELD / ACTIVITIES:	**Final Design** of foundations on bored piles
DATES & PLACE	2000-2001 - Italy
CLIENT	POLITECNICA s.c.a r.l. Modena
PROJECT TITLE	Urban Recovery S. Bartolo a Cintoia - (Firenze)

POSITION HELD / ACTIVITIES:	**Final Design** of the Foundations of a 15 floors tower and linear 6 floors building. Shallow Foundations on soiul treated with column treatment
DATES & PLACE	2000 - Italy
CLIENT	PROGER s.r.l. (Pescara)
PROJECT TITLE	University of Teramo, faculty of Political Sciences - (Teramo)
POSITION HELD / ACTIVITIES:	Assistance to the Direction of the Works for the excavation, the retaining structures and the piled foundations
DATES & PLACE	2000-2001 - Poland
CLIENT	COGEI POLSKA
PROJECT TITLE	HYATT Regency Hotel - Warsaw, POLAND
POSITION HELD / ACTIVITIES:	Design documents verification of the retaining Diaphragm walls on 5 underground levels (excavation depth of 16 m – more than 12 under the GWT), and of the piled foundations. Assistance during the works
DATES & PLACE	2000-2001 - Italy
CLIENT	ANAS (Road Authority) of Potenza
PROJECT TITLE	State Road SS 655 "Bradanica". Trunk I°, Lot 3°. New construction for 10.5 km. **Final Design Stages 1 and 2**
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Technical Assistance for support to the design section and New Construction for the Geotechnical Design and the earth works and foundations.
DATES & PLACE	2000-2001 - Italy
CLIENT	ITALPROGETTI s.r.l. - Roma
PROJECT TITLE	Comune di Roma – Musical complex of Ara Pacis (Roma) Final Design
POSITION HELD / ACTIVITIES:	Cooperation to the Design of the Foundations and excavation retaining
DATES & PLACE	2000 – 2001 - Italy
CLIENT	POLITECNICA s.c.a r.l. Modena
PROJECT TITLE	Underground Parking S. Orsola for 500 parking spaces - Bologna. **Final Design**
POSITION HELD / ACTIVITIES:	Cooperation to the design of the retaining works: (RC with intermediate support by active anchoring and steel props)
DATES & PLACE	2000 – Rome (Italy)
CLIENT	PROGIN S.p.A. - Roma
PROJECT TITLE	Highway Ring of the Great Ringroad of Rome. Upgrade to 3 lanes for each direction on the Northwestern section Lot 2 1° Stralcio km 0+450 - 3+700. **Final Design**
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Cooperation to the design of the foundations for the viaducts and the retaining structures, one Cut&Cover structure and underpasses, overpasses and trenches.
DATES & PLACE	1999-2000 - Italy
CLIENT	PROGIN S.p.A. - Roma
PROJECT TITLE	Highway Salerno-Reggio Calabria. Upgrade to section type 1A CNR/80 – partial sections, **Final Design**
POSITION HELD / ACTIVITIES:	**Geotechnical Engineer** in charge of Cooperation to the design of the foundations for the viaducts and the retaining structures, one Cut&Cover structure, mined tunnels startups and embankments.

Contact information:
E-mail giuseppefurlani@studiosintesi.net - Phone +39 0541 478625 - Sintesi Studio – Rimini – Italy.

Declaration:
I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience.

Giuseppe Furlani {April, 2020}

Name / Surname DATES