



ingegneria civile

G.T. Engineering S.r.l.
Civil Engineering Consultants

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oice 
Associazione delle organizzazioni
di ingegneria di architettura e di
consulenza tecnico-economica

OVERVIEW

Since 1990 GTE has been providing civil engineering services to construction companies, businesses, authorities and private individuals.

GTE offers expertise and experience in the following fields:

- Buildings
- Transport infrastructures
- Topography
- Civil works for the Oil & Gas sector

The company has its own internal staff of technicians, as well as a network of consultants, which means it can quickly tackle multidisciplinary projects of any size with the aim of providing a top quality, comprehensive service.

A pragmatic approach to problems and the speed at which we come up with solutions are the strong points all Clients recognize.

EXPERTISE

Buildings

- Structural design
- Architecture
- Building revamping
- Project management

Infrastructures

- Roads and railways design
- Structures
- Earthworks digital modeling and optimization
- Urban planning
- Road sign structures
- Worksite desing and operational phases study
- Guardrails design
- Existing bridges and structures safety evaluation and revamping design

Topography

- Framework and high density topographic networks design
- Cartography testing
- Survey and tracking
- Topographic monitoring (structural settlements etc)
- GIS

Civil works design for pipeline projects

- Foundations, anchor blocks, supports
- Permanent and temporary structures
- Microtunnel starting pits
- Topographical tracking and checking
- Pipeline launch design

QUALITY ASSURANCE

GTE works in observance of a company Quality System in accordance with standard UNI EN ISO 9001 for the provision of “services of architectural project design, calculation of structures for civilian and industrial construction and project engineering of roads and accessory services; performance of topographic surveys with the preparation of technical documents” certified by **DNV GL Business Assurance Italia S.r.l.**, an organization accredited by Accredia, with Certificate no. CERT-02421-97-AQ-BOL-SINCERT first issued on 11/12/1997.

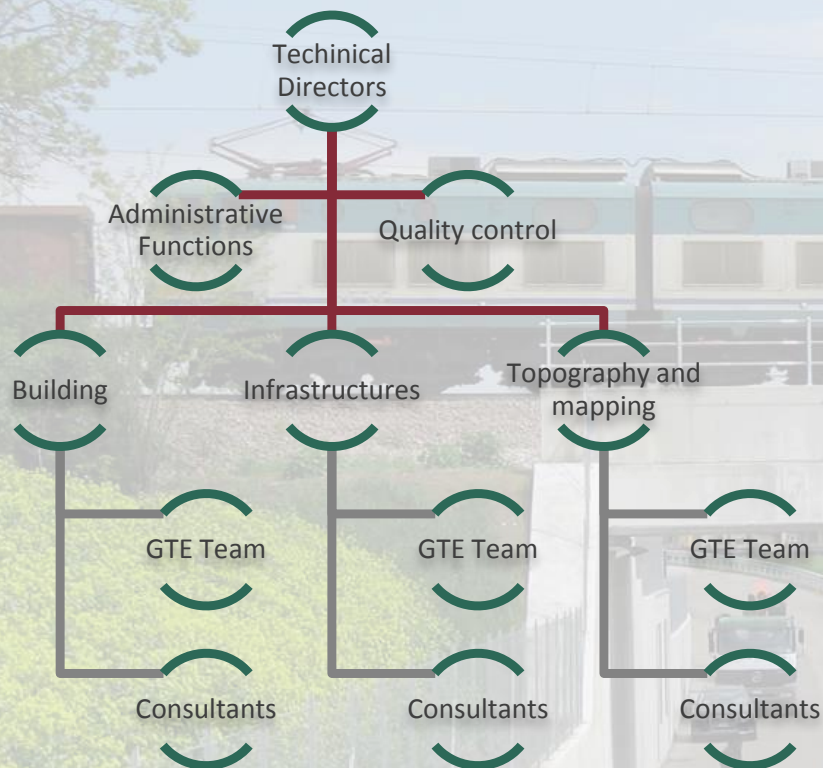


TURNOVER

Year	2008	2009	2010	2011	2012	2013
1000 x €	1.746	1.828	2.039	1.877	2.316	1.840

Since October 2013 GTE has been a member of the **OICE** (*Employers' Association, belonging to Confindustria, representing Italian engineering, architectural and technical economic consulting organizations*).

ORGANIZATION



TEAM

TECHNICAL DIRECTORS

Paolo Manfredi, Civil Structural Engineer, is now President and Technical Director of GTE. He graduated in Civil Engineering in 2000 and has been an employee of the company since March 2001. He is in charge of the structural and building sector of GTE.

Luca Testa, Civil Road Engineer, is now CEO and Technical Director of GTE. He graduated in Civil Engineering in 1998 and has been an employee of the company since 1999. He is the coordinator of the road and railways design team.

EXPERT CONSULTANT ENGINEER

Maurizio Ghizzoni, Civil Engineer. He graduated in 1972 from the Milan Polytechnic Institute with a degree in Civil Engineering. He has been registered with the provincial Order of Engineers in Parma, no. 631 since 1973 and is listed among the commissioning engineers of the same Order. Extensive knowledge of all civil engineering sectors, top expert in topography and mapping.

ENGINEERING TEAM

- 10 designers
- 2 HSE experts
- 6 draftmen
- 1 geologist

ADMINISTRATIVE FUNCTIONS

- 2 employees

MAIN CLIENTS

Anas S.p.a.

www.stradeanas.it

Annoni S.p.a.

www.gruppoannoni.com

Ativa Engineering S.p.a.

www.ativa.it

Autocamionale della Cisa – Cisa Engineering

www.autocisa.com

Autostrade Centro Padane S.p.a.

www.centropadane.it

Barilla S.p.a.

www.barilla.com

Consorzio ARCO TEEM

www.tangenziale.esterna.it

Consorzio BBM

www.brebemi.it

Consorzio Cepav Due

www.cepavdue.it

Consorzio Cepav Uno

www.cepavuno.it

Eni Group

www.eni.it

Gas Plus S.p.a.

www.gasplus.it

Grandi Lavori Fincosit S.p.a.

www.glf.it

IBIS Salumi S.p.a.

www.ibis-salumi.com

Impresa Ghizzoni S.p.a.

www.ghizzonispa.com

Impresa Pizzarotti e C. S.p.a.

www.pizzarotti.it

Italferr S.p.a.

www.italferr.it

Max Streicher Italia S.p.a.

www.streicher.it

Metropolitana Milanese S.p.a.

www.metropolitanamilanese.it

Net Engineering S.p.a.

www.netspa.com

Progin S.p.a.

www.progin.it

Saipem S.p.a.

www.saipem.com

Sea Segnaletica S.p.a.

www.seasegnaletica.it

Sicim S.p.a.

www.sicim.eu

SINA S.p.a.

www.sina.co.it

Sinelec S.p.a.

www.sinelec.it

Snam Rete Gas S.p.a.

www.snamretegas.it

Technital S.p.a.

www.technital.it

UNIECO S.c.r.l.

www.unieco.it

INFRASTRUCTURES

SS195 CAGLIARI-PULA MOTORWAY – SARDINIA ITALY



The new 4 lanes motorway will connect Cagliari to Pula, the project involves 15 km of road, 5 viaducts, 5 overbridge and 12 underpasses.

- CLIENT: GRANDI LAVORI FINCOSIT SPA
- SERVICES: DETAILED DESIGN, SITE ASSISTANCE

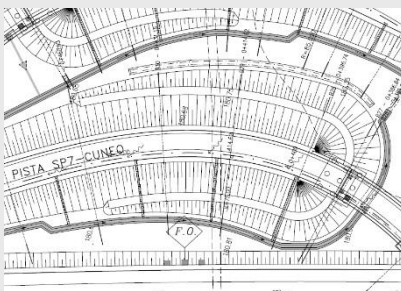
HISTORICAL BRIDGE STRUCTURAL SAFETY STUDY - PARMA - ITALY



Lamberti Bridge is a 3 arches Maillard type concrete structure on a main road in the Province of Parma. Built in 1933 it now needs a seismic retrofit and structural restoration.

- CLIENT: PARMA PROVINCA ADMINISTRATION
- SERVIZI: SEISMIC AND STRUCTURAL EVALUATION

A33 ASTI-CUNEO MOTORWAY – PIEDMONT REGION - ITALY



The motorway will connect the two important cities of the Piedmont region. The road has 2 ways 4 lane section

- CLIENT: SINA SPA
- SERVICE: CONCEPT AND DETAILED ROAD DESIGN, RETAINING WALLS, ACOUSTIC BARRIERS, GUARDRAIL, UNDERPASSES, CULVERTS.

MILAN OUTER EASTERN BYPASS – TEEM – MILANO - ITALY



The project consists in the construction of a 32-km multi-lane bypass running from Melegnano on the A1 Milan-Bologna Motorway to Agrate Brianza on the A4 Milan-Venice Motorway.

- CLIENT: IMPRESA PIZZAROTTI SPA, SINA SPA
- SERVICES: DETAILED DESIGN OF CONNECTING ROADS, DETAILED DESIGN OF 11000m OF ACOUSTIC BARRIERS

FIDENZA-CREMONA RAILWAY UNDERPASS - ITALY



In 2010 a 2km bypass connecting Sp46 to SP588 near Busseto, Province of Parma. A concrete monolithic underpass was needed to pass the RFI Fidenza-Cremona railway.

- CLIENT: COMUNE DI BUSSETO – CEPAV UNO
- SERVICE: PRELIMINARY AND DETAILED DESIGN OF ROAD AND STRUCTURES, WORKS SUPERVISION

ETIHAD RAIL STAGE 1 – UAE



The stage 1 of the project will include the connections between Ruwais to Abu-Dhabi and Shah and the total length is 264km.

- CLIENT: SAIPEM UAE
- SERVICE: CULVERTS AND UNDERPASSES DESIGN, ROAD DESIGN, HYDRAULIC WORKS DESIGN OF THE MIRFA DEPOT.

BUILDINGS

BARILLA BAKERY PLANT IN RUBBIANO



GTE is Barilla's main civil engineering consultant for the 28200 sqm plant of Rubbiano. After the 2012 earthquake, the Company started the seismic retrofitting of the plant in order to increase safety to 60% of the design seismic load for this region.

- CLIENT: BARILLA SPA
- SERVICE: SEISMIC RETROFITTING DESIGN

MONTESANO GAS CENTRAL – NEW WAREHOUSE



The Montesano Snam Plant is located in the highest seismic level of Italy. Overstructure is a concrete prefab frame, foundations are cast in place footings over a pile-consolidated soil.

- CLIENT: GHIZZONI SPA
- SERVICE: STRUCTURAL DESIGN

INFANTRY SCHOOL IN SAN PROSPERO – PARMA



The structure of this building is made by PlastBau walls. These stay in place EPS formwork include a prefabricated reinforcing bar system. Class A Energy building

- CLIENT: COMUNE DI PARMA – IMPRESA BUIA
- SERVICE: STRUCTURAL DETAILED DESIGN

PIAZZA DELLA STAZIONE DI FIDENZA – BIKE PARKING



The project includes an underground parking for 400 cycles, the restoration of the square and a new multi-functional building.

- CLIENT: UNIECO Soc. Coop
- SERVICES: DETAILED STRUCTURAL DESIGN, MEP DESIGN, SITE ASSISTANCE

SUGAR PRODUCTION PLANT RESTORATION - ERIDANIA



Borsari Group bought the former sugar production plant from Eridania in order to transform it in a cultural and commercial center.

- CLIENT: BORSARI GROUP
- SERVICE: STRUCTURAL DESIGN AND SITE SUPERVISION

L'AQUILA RESEARCH CENTER ON RENEWABLE ENERGY



After 2009 L'Aquila strong earthquake, ENI Group offered University of L'Aquila a complex of building in order to develop a renewable energy research center.

- CLIENT: ENI GROUP
- SERVICES: PRELIMINARY AND DETAILED STRUCTURAL DESIGN

TOPOGRAPHY AND MAPPING

ETIHAD RAIL STAGE 1 – UAE



The stage 1 of the project will include the connections between Ruwais to Abu-Dhabi and Shah and the total length is 264km

- CLIENT: SAIPEM UAE
- SERVICE: FRAMEWORK AND HIGH DENSITY NETWORK TESTING AND GENERAL TOPOGRAPHIC CONSULTANCY

HIGH SPEED RAILWAY MILANO-BOLOGNA



The High speed railway connect Milan to Bologna (180 km) and is part of the national high-speed train project.

- CLIENT: CEPAV UNO
- SERVICE: FRAMEWORK AND HIGH DENSITY NETWORK DESIGN AND GENERAL TOPOGRAPHIC CONSULTANCY

TRAMWAY DE COSTANTINE - ALGERIA



The line runs from the city's old-town alongside the main historical Mosque, passes over the slope of the Oued Rhumel, and proceeds through the university area, ending in the modern part of the city. The works include 11 stations, two viaducts stretching 465 and 114 metres, an underpass for urban traffic.

- CLIENT: IMPRESA PIZZAROTTI S.P.A.
- SERVICE: TOPOGRAPHIC SURVEYS AND FRAMEWORK NETWORK DESIGN AND TESTING

DGE – ENI HEADQUARTER IN MILANO



Eni Group is building new headquarters in San Donato Milanese. The project includes 3 main buildings, underground parking and other facilities

- CLIENT: ENI Group
- SERVICE: STRUCTURAL MONITORING OF THE BUILDING SURROUNDING THE WORKSITE

HIGH SPEED RAILWAY MILANO-VERONA

GENERAL CONTRACTOR		ALTA SUPERVIGILANZA	
Cepav due		SAIPEM	
P.L. 04/2014/0000000000		SAIPEM	
Progetto	Intervento	Finalità/autorizzazione	Rev. / Data
VERTICE DI RETE DI INQUADRAMENTO GPS			
Regione:	Provincia:	Comune:	Località:
Nome:	Nome GI		
Coord. geografiche (WGS-84 - EPSG:31466)	Coordinate piane (Gauss-Krüger)	Coordinate piane (UTM 32Q-ETRS2000)	Coordinate rettilinee
N = 45°49'31.273182" E = 10°31'56.758632" U = 127.251	N = 4556270.24 m E = 1548417.700 m	N = 4556270.540 m E = 1548417.693 m	N = 6504955.840 m E = 3424409.646 m
Immagine aerea	Fotografia		
Schizzo monografico	Descrizione		
	Cantone metallico posizionato sull'aiuola quadrangolare che delimita la pista ciclabile da via cava		

The High speed railway connect Milan to Verona (140 km) and is part of the national high-speed train project.

- CLIENT: CEPAV DUE
- SERVICE: FRAMEWORK AND HIGH DENSITY NETWORK TESTING, CARTOGRAPHY TESTING AND GENERAL TOPOGRAPHIC CONSULTANCY

A3 SALERNO-REGGIO CALABRIA STAGE 3 MOTORWAY



G.L.F. s.p.a. is working on what is called Macro Lotto 3 part 1 for about 9 kms with two tunnels 3.800 meters long and the 120m span viaduct Caffaro.

- CLIENT: GRANDI LAVORI FINCOSIT SPA
- SERVICE: STRUCTURE POSITION CHECK, STRUCTURE TRACKING, SURVEYS

BUNDE-ETZEL 48" PIPELINE (BEP) PROJECT - GERMANY



For the Westerwoldsche AA and Wymeerer Sieltief river crossing the company decided to use an Herrecknect 750ton pipe thruster. Due to the very soft and muddy soil conditions, the installation required a temporary basement with 16 1000mm pipes driven in the soil and a complex system of steel beams to support the pipe thruster, to be built in less than 10 days.

- CLIENT: GHIZZONI SPA
- SERVICE: PIPELINE LAUNCH WITH PIPE-THRUSTER FEASIBILITY STUDY, PIPE THRUSTER TEMPORARY BASEMENT DESIGN, SITE ASSISTANCE.

POGGIO RENATICO-CREMONA PIPELINE PROJECT - ITALY



The 1200mm natural gas pipeline, designed to strengthen one of the most important gas networks in the North of Italy, has a length of 85 km and a working pressure of 75 bars. Several trenchless technologies such as minitunnels, controlled horizontal drilling and direct pipes were adopted.

- CLIENT: GHIZZONI SPA – SNAM RETEGAS
- SERVICE: MICROTUNNEL LAUNCHING PITS, PIPELINE LAUNCH DESIGN, CIVIL WORK DESIGN, TEMPORARY STRUCTURES DESIGN

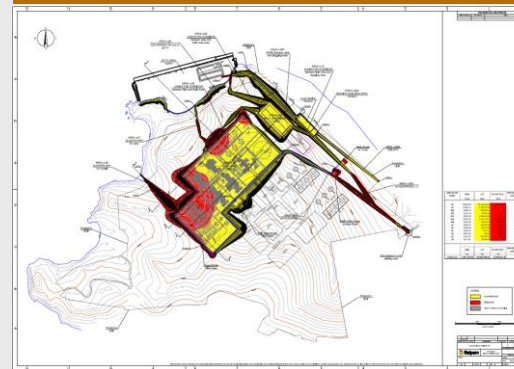
SAN POTITO - CERIGNOLA STORAGE PLANT - ITALY



The San Potito and Cotignola field has a storage capacity of about 400 million cubic metres of natural gas and consists of 11 active wells.

- CLIENT: GHIZZONI S.P.A. – EDISON S.P.A.
- SERVICE: CIVIL WORKS STRUCTURAL DETAILED DESIGN

MAMBA LNG ONSHORE PLANT - MOZAMBIQUE



In order to optimize the earthworks for the Eni onshore LNG plant (area about 300 ha) a DTM model has been performed.

- CLIENT: SAIPEM SPA
- SERVICE: DIGITAL MODEL OF THE TERRAIN, DESIGN ELEVATIONS AND EARTHWORKS OPTIMIZATION

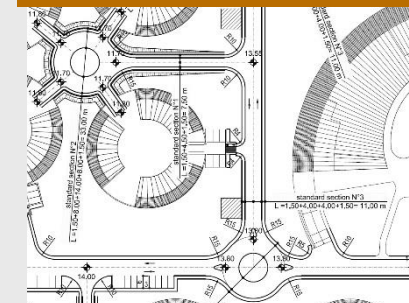
BORDOLANO STORAGE PLANT - ITALY



The new site (90000 sqm) will include a compressor and treatment station which will consist of 9 wells (2 existing wells and 7 new wells) and a pipeline of approximately 2 km connected to the Snam network.

- CLIENT: MAX STREICHER ITALIA
- SERVICE: TEMPORARY WORKS DESIGN, STRUCTURAL DETAILED DESIGN

ZUBAIR OIL FIELD DEVELOPMENT PROJECT - IRAQ



The ZFOD includes a Office District and a Residential Village for a total area of 800000sqm.

- CLIENT: ENI GROUP
- SERVICE: ROAD AND SEWAGE SYSTEM DESIGN. BILL OF QUANTITIES.