

## PASQUALE BUONGIORNO



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**Date of Birth** : 02.03.1957  
**Nationality** : Italian  
**Education** : Degree in Civil Engineering, University of Genoa, 1982  
**Languages** : English (good)  
**Membership** : Order of Engineers of Genoa (N. 5228A)

**Certification**  
**2018-2021**

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**STRUTTURE MARINE**

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## **General Background**

- Experienced in the design of civil and maritime steel and reinforced concrete structures, such as: cellular caissons, mass concrete quay walls, breakwaters, sea walls, sheet piling, trestles, slipway, petrochemical, industrial and yacht harbours
  - Experienced in the organisation and management of the activity of Design Department
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## **Professional Experience**

### YEARS OF EXPERIENCE

- Total: from 1982
- In GRANDI LAVORI FINCOSIT S.p.A.: from 1982 to 2018
- in Consorzio Bettolo (Bettolo srl) from 2018 to 2022
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## **Publications**

- "Field and experimental measurements of current forces acting on floating cellular caissons of Lido S. Nicolò inlet for Venice flood barrier project" E.Rossi, P. De Girolamo, M. Di Risio, A. Baù, P. Buongiorno, G. Bellotti – 5<sup>th</sup> Coastal structures international Conference, 2007
  - "The realization of a RLC support structure for offshore facilities in shallow waters" P. Buongiorno, S. Coppello – OMC Offshore Mediterranean Conference, 2001
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## **Teaching (Seminars and courses)**

- Seminar title: "Cellular caissons for maritime works: General guidelines and construction" – P. Buongiorno: "The design of cellular caissons" – Order of Engineer of Rome / PIANC – 26.1.2016
  - Course for HSE managers on construction sites – Teaching section about: "Safety on maritime construction site" – University of Genova - Department of Structural Engineering and Geotechnics – 2001 ÷ 2013
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## **Master Thesis Advisor**

- "Design of vertical wall breakwaters considering abnormal waves" – 2003
  - "Reinforced concrete caissons for maritime works: evaluations, considerations, design differences between hand calculation and the use of computer softwares" – 2000
  - "Economic aspects of construction experience of a new port in a country of the Persian Gulf: the case of Ras Laffan in Qatar" – 1995
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## **Training**

1993 – Quality Officer in Construction Companies – Scuola Edile Genovese

1994 – Eurocode 2 – UNI ENV 1992-1-1. Design of reinforced concrete structures – UNI – CTE

1995 – Quality Systems in construction companies – ISTEDIL

2000 – Safety Coordinator in construction sites – EAFRA

2009 – Duties and responsibilities of managers in the field of Health and Safety at work – Sistemi Formativi Confindustria

2011 – Updating studies on Maritime and Off-Shore Design - AIOM

2011 – Control and validation of Design – ICMQ

2013 – How to structure and implement a project to improve safety at work: from requirements to implementation and evaluation of results - Training course for HSE managers - Sistemi Formativi Confindustria

2015 – Updating studies on Maritime and Off-Shore Design – AIOM

2015 – The recovery of Costa Concordia cruise ship - Order of Engineers Province of Milano

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## ***Consorzio Bettolo* (Bettolo S.r.l.)**

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### **CHIEF OF CIVIL TECHNICAL DEPARTMENT**

#### **ITALY – GENOA**

Project and contract manager (Responsabile dei lavori e dell'appalto) for the execution of the works necessary to make the Calata Bettolo container terminal operational in its preliminary phase and subsequent modification

**Period: 2018-today**

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# GRANDI LAVORI FINCOSIT S.P.A.

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## CHIEF OF DESIGN DEPARTMENT

### RESPONSIBLE AND COORDINATION OF DESIGN DEPARTMENT

As Chief of Design Department he was involved in the following projects:

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#### ITALY - TARANTO

Adaptation work of the crude oil handling storage logistic "Tempa Rossa" at the refinery of ENI R & M in the port of Taranto - Extension of the existing pier, construction of a third platform and relevant berthing facilities

**Period:** 2013-2018

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#### ITALY - BRINDISI

Construction of a new quay connecting the existing quays "Punto Franco" and "Montecatini"; realignment of "S. Apollinare" mooring quay:

- Superstructures (study of the alternative solution)
- Study of the construction phase of the steel sheet pile and study of the stability of S. Apollinare quay

#### ITALY - BARI

Completion of harbour facilities in the area called "Pizzoli - Marisabella"

- Study of the launching and replacing of caissons
- Evaluation of the alternative solution for discharge channel

#### CROATIA - RIJEKA

Design and construction of a new container terminal

- Studies about the site installation and relevant to other design aspects
- Support in the design control

#### ITALY - CIVITAVECCHIA

1st lot of Strategic works in the port of Civitavecchia: extension of the main breakwater "C. Colombo", realization of a dock for ferry boats and a service dock

- Support to design control and study of the construction phases and of nautical stability of caisson launching

#### ITALY - PIOMBINO

Tender study for the preliminary and detailed design and construction of infrastructural works with environmental focus for the implementation of the regional project for revitalizing and boosting the industrial competitiveness of the port.

#### DESIGN OF MARITIME FLEET

Calculations for modifications and adjustments on the maritime fleet (setting up of Venezia pontoon for bags injection; setting up of San Marco Pontoon for Menard works in Vado)

#### ITALY - MARINA DI CARRARA

Study of the construction phase: sheet pile driving and reclamation of the apron called "Città di Massa"

**Period:** 2012 - 2014

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#### **ITALY - TARANTO**

Adaptation work of the crude oil handling storage logistic "Tempa Rossa" at the refinery of ENI R & M in the port of Taranto - Extension of the existing pier, construction of a third platform and relevant berthing facilities

- Study of the tender project

#### **ITALY - BRINDISI**

Consolidation of the quay entitled to Admiral Millo (lot I); emergency maintenance and consolidation of the quays of Monument of the Sailor and of Pigonati Canal (lot II)

- Study of the tender project

#### **ITALY - TARANTO**

Project financing for the engineering and construction of the logistic platform in the Port of Taranto: detailed design of the basin for containing polluted dredged material

#### **ITALY – MOSE PROJECT – VENICE LAGOON**

- Construction design for the service buildings for the S. Nicolò inlet barrage on the North abutment (artificial island third phase) 42M€
- Studies for sinking procedure of the barrage caissons for S. Nicolò inlet and Malamocco inlet abutments - S. Nicolò caisson: 63x24x27,55 m; Malamocco caisson 60x20x24,95 m

**Period:** 2010 - 2011

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#### **ITALY – BRINDISI LNG TERMINAL**

Realisation of the new LNG Terminal in Brindisi – Capobianco site. Detailed design of the slope protection both rubble mound section and caisson section

**Period:** 2010

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#### **ITALY – VENICE: “MOSE” PROJECT**

Underground services crossing conduits. Remote controlled horizontal drilling. Detailed design

**Period:** 2009

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#### **ALGERIA – DJEN-DJEN PORT**

Tender for the design and construction of a container terminal in the port of Djen-Dejn

- Study of the project design and of an alternative

**Period:** 2010

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#### **ITALY - PORTO EMPEDOCLE**

Design of civil works of a LNG terminal

- Study of tender project (base and alternative solutions for the tender bid)

**Period:** 2009

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#### **ITALY – LA MADDALENA ISLAND**

Realisation of the 7th lot of infrastructural works related to the G8 summit - Maddalena Island - Adaptation of a military port for new civil port services

- Study of the provisional phases related to the maritime works

**Period:** 2008 - 2009

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**ITALY - VADO LIGURE**

Construction of the new Multipurpose platform in the port of Vado Ligure (about € 350 millions).

Tender phase: study of the project and of alternatives.

Construction phase: coordination activity with the designer Technital S.p.A. with regard to the detailed design.

Detailed design of the caissons for the platform and for the berths with relevant superstructures. Table reversed caissons (specifically assigned to GLF from Technital).

Support to the construction site during the construction of the temporary structures for the execution of the works: service berth, mooring bollards and steel structures like work platform, structures for mooring dolphins test.

Preparation of the AS BUILT documentation.

**Period:** 2006-today

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**ITALY – SAVONA**

Construction of the third cruising pier in the port of Savona

**Period:** 2006 - 2009

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**ITALY – VENICE: “MOSE” PROJECT**

Construction design of the civil and marine works of the “MOSE” project including the preliminary works for the North and South abutment, the infrastructures for the realisation of barrier monoliths launching system, the preparation of barrier monoliths lodging trench and the realisation of the monoliths themselves on special prefabrication platforms and the construction design of the barrier monoliths

**Period:** 2005 – today

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**ITALY – VENICE: “MOSE” PROJECT**

Interventions for Venice safeguard – S. Marco basin banks – Design for the consolidation of the bank walls

**Period:** 2005 – 2008

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**ITALY - CIVITAVECCHIA**

Completion and strengthening of “Cristoforo Colombo” Breakwater in the Port of Civitavecchia. Design and Construction

**Period:** 2005 – 2007

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**ITALY - BRINDISI**

Design of the civil works of a LNG Terminal in the outer port of Brindisi and of the geotechnical aspects related to the realisation of the slope protection.

From 23.05.2006 to 04.08.2006 in charge of technical services at LNG site.

**ITALY - CAGLIARI**

“Sabaudo” jetty reinforcement works.

Feasibility caisson construction study

**ITALY – BARI**

Port of Bari “Darsena di Ponente” Construction of quays and aprons

Elaboration and calculation of a technical alternative including caisson design, superstructure, definition of antireflective structures, quantities

**ITALY – SAVONA**

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Completion of the main breakwater – caisson design

**ITALY – GELA**

Repairing works of the main breakwater  
Design of caissons and superstructure

**ITALY – POZZUOLI**

Design of caissons for the extension of the quay “Caligoliano”

**ITALY – TARANTO**

Tender for the design and construction of a LNG terminal in the port of Taranto  
Preliminary design of a sea water intake structure and slope protection

**Period:** 2004

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**ITALY – LIVORNO**

Caisson design for the extension of the “Italia” pier

**Period:** 2003 – 2004

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**ITALY – VENICE**

Provisional works and detailed design for S. Erasmo Island. Restoring and re-construction of the island facilities and salvaging from high waters

**Period:** 2003

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**ITALY – GENOA**

Caissons design and construction for breakwater “Galliera”

**ITALY – ROVIGO**

Study for the design and construction of a LNG Terminal

**ITALY – TARANTO**

Extension of the breakwater called “Porto Ovest”.  
Design and construction of a basin for public transportation

**ITALY – CIVITAVECCHIA**

Extension of the main breakwater “C. Colombo” in r.c. caissons – 2<sup>nd</sup> lot  
Design and construction of a new container terminal

**ITALY – GENOA**

Caissons design and construction for “Canepa” pier  
Caissons design and construction for “Chiappella” wharf  
Caissons design and construction for “Colombo” pier  
Caissons design and construction for “Camillo Luglio” marina in Genoa Port  
Caissons design and construction for a quay wall in Genoa-Voltri

**ITALY – PALERMO**

Caisson design and construction for the extension of the main breakwater

**ITALY – LIVORNO**

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Completion works of the "Toscana" basin

**Period:** 2002 – 2003

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**ITALY – HIGH SPEED RAILWAY – BRIDGE ON RIVER PO**

Design of provisional structures for construction of a bridge on the river Po

**QATAR – MESAIEED**

Design and construction of multi product berth and small craft berth

**ITALY – BRINDISI**

"Costa Morena" wharf – East berth – Design and construction of the caissons for the infrastructures

**ITALY – VENICE**

Design and construction of "Trento" quay wall

**ITALY – SAVONA**

Design and construction of storage reinforced concrete caisson and ancillary structure (foundation, tanks, etc.) for bulk storage unit

**ITALY – SAVONA**

Design and construction of "Boselli" head quay wall and north-west quay wall

**Period:** 1999 – 2002

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**NIGERIA – SANTA BARBARA MPF**

Supply of mobile production facilities. Responsible for the concrete design part of the project

**ITALY – MAGNISI**

Design for rehabilitation of Agip Somicem berth

**Period:** 1998 – 1999

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**ENGINEER OF THE DESIGN DEPARTMENT, committed on the following projects:**

**ITALY - SAVONA**

Design and construction of "Boselli" quay wall

**ITALY – VADO LIGURE**

Design and construction of a rail road terminal and facilities

**ITALY – CIVITAVECCHIA**

Design calculation for the prolongation of the main breakwater "C. Colombo"

**QATAR – QAFAC METHANOL/MTBE PROJECT, QUAY No. 16, DOHA**

Design and construction of quay no. 16 at Mesaieed industrial city

**QATAR – QAFAC METHANOL/MTBE FACILITY PROJECT DOHA**

Construction of a seawater intake for Methanol/MTBE facilities

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**ITALY – ROSSANO CALABRO**

Upgrading of seawater intake for a thermoelectric power station

**ITALY – PRINCIPALITY OF MONACO – PORT “DE LA CONDAMINE”**

Design study for the extension of the port (Lee breakwater (semi-floating) and reclamation

**Period:** 1996 – 1998

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**GREECE – MIKONOS**

Reinforced concrete cellular caissons for the quay walls

**LEBANON – BEIRUT**

Review of quay wall no. 15 design with mass concrete interlocked blocks

**ITALY – BARI**

Reinforced concrete cellular caissons for “Pizzoli, Marisabella” quay wall

**Period:** 1996 – 1997

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**ITALY – ROSSANO CALABRO**

Upgrading of the sea water intake of ENEL's thermoelectric power plant

**ITALY – GENOA**

Provisional works and site installations for the “Comparto IV” (Genoa – San Benigno)

**Period:** 1993 – 1995

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**QATAR – RAS LAFFAN**

Quay walls, berth infrastructures and site installations

**Period:** 1991 – 1994

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**ITALY – VADO LIGURE**

Superstructure of the northern berth  
Northern reclamation and crane rail foundation on piles

**ITALY – LIVORNO**

Mooring structures for the AgipPlast plant

**Period:** 1991

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**ITALY – BRINDISI**

Reinforced concrete caissons quay wall and superstructure of the wharf opposite to the “Costa Morena”

**Period:** 1990 – 1994

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**ITALY – TARANTO**

66 Cellular reinforced concrete caissons for the new Navy Base

**Period:** 1990 – 1993

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**ITALY – RIVA TRIGOSO**

Upgrading works of the shipyards

**Period:** 1989

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**ITALY – VENICE**

Berthing facilities

**Period: 1988 – 1995**

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**ITALY – LA SPEZIA**

Refurbishment of the ENEL's coal terminal

**Period: 1988 – 1991**

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**ITALY – CIVITAVECCHIA**

Cellular reinforced concrete caissons for the C. Colombo main breakwater

**Period: 1988 – 1989**

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**ITALY – OFF-SHORE ISLAND**

Feasibility design for an artificial island in the Adriatic sea for the installation of a 2,560 MW thermoelectric power station

**Period: 1987 – 1989**

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**ITALY – SICILY**

16 Cellular reinforced concrete caissons for the harbours of: Lampedusa, Milazzo, Palermo, Riposto, Salina island

**ITALY – VOLTRI, GENOA**

R.C. cellular caisson eastern lee breakwater and rubble mound

**Period: 1986 – 1991**

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**ITALY - POZZALLO, SICILY**

34 Cellular reinforced concrete caissons for the harbour's jetty and quay walls

**Period: 1985 - 1988**

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**ITALY - MARINA DI CARRARA**

Extension of the eastern quay wall of the Apuania' shipyard

**Period: 1985 - 1986**

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**ITALY - LA SPEZIA**

Refurbishment and upgrading of the "Paita" wharf

**ITALY - VADO LIGURE**

Main quay wall at -12.5m depth and redevelopment of Ro-Ro berth

**Period: 1985**

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**ITALY - BAGNARA CALABRA**

Cellular reinforced concrete caissons for the port's main breakwater and quay walls

**ITALY - BRINDISI**

"Punta Riso" sea wall (both in reinforced concrete cellular caissons and rubble mount)

**ALGERIA - DJEN DJEN**

Site installations and quay wall

**Period: 1984 - 1989**

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**ITALY - LIVORNO**

Upgrading of the dry-dock

**ITALY - GENOA**

Re-arrangement of the yards west of the "Nino Ronco" pier

**Period: 1984 - 1985**

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**ITALY - GENOA**

Cellular reinforced concrete caissons for the clarification tanks of the Genoa's historical centre sewage treatment plant

**NIGERIA**

Road Mayo-Selbe-Jamtari A8 (n. 51 box culvert & bridges)

**Period: 1983 - 1984**

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**ITALY - PORT OF BRINDISI**

Wharf opposite to the "Costa Morena" jetty (block wall, rubble mound, etc.)

**Period: 1983**

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**ITALY - S. GIORGIO PORT**

Yachting and fishery harbour (breakwaters, quay walls and slipway)

**Period: 1982 - 1985**

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**ITALY - CAGLIARI, SARDINIA**

"Rinascita" wharf (Prefabrication of 38 caissons)

**ITALY - CONSORZIO BONIFICA CANALE EMILIANO-ROMAGNOLO**

73 bridges, 47 drums, canals, intakes, etc.

**ITALY - CASSA PER IL MEZZOGIORNO, ROME**

Construction of the Alaco aqueduct (pre-stressed concrete and steel pipes, tanks, tunnels, bridges)

**ITALY - SAVONA**

Extension of main breakwater and north-western quay wall

**Period: 1982 - 1983**

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