

Surname: DONADONI

Name: Raffaello

Nazionalità: Italian

Education: University Degree in Civil Engineering with structural address at Polytechnic of Milan, March 1991.

Member of the Engineers List of Engineer Order of Bergamo enrolment n. 1874

Seminars and Courses: Certificate of participation in the course for safety in temporary and mobile construction sites (D.Lgs. 494/96), and following various refresher courses to maintain the qualification.

Registered in the list of qualified consultants (Law n. 818) regarding Fire Prevention at n. BG01874I00332 and following various refresher courses to maintain the qualification.

KlimaHaus Junior Expert Certificate obtained with participation in the Basic and Advanced Course KlimaHaus 2009 in Bergamo: BUILD - Course in executive design and construction management, design laboratory and visit to construction sites of energy efficient buildings. - Duration 88 hours KlimaHaus course on energy production, distribution and regulation in low energy buildings. Other courses regarding energy efficiency building organized by KlimaHaus

Professional Associations: S.I.G. – Società Italiana Gallerie (Italian Tunneling Society) from 1999 to 2018 with the participation in various conferences with visits to construction sites

Languages: Italian: (mother tongue)
English: good

Contract Type: Owner

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Professional profile:

Senior Civil Engineer responsible for calculation and design of civil and industrial structures in steel, in normal and prestressed reinforcement concrete, in masonry and wood and for the preparation of metric estimations and the technical supervision of civil works during constructions in yard. Knowledge of different calculation codes for structures in plain concrete and iron, of which: Eurocode, A.C.I., A.I.S.C., B.S., DNV, AS-NZ, ASCE, API Norwegian and French codes

Structural engineering

The main activity consist of the structural design with particular concern for problems regarding the stress analysis (XFINEST, NASTRAN, ANSYS, SAP, STRUDL and SACS), static consolidation of masonry, reinforcement concrete and steel structures.

There are many work experiences as an external designer; experiences gained in and on behalf of primary importance engineering companies (SNAMPROGETTI, SAIPEM, S.A.S.P., A.B.B. - SAE SADELMI and TECNIMONT), in which the activity of purely structural design was required together a coordination activity for the collection of all the information and plant and mechanical requirements necessary to proceed to a correct structural analysis.

Civil design sector

In addition to what is shown, some minor interventions should be mentioned for what concerns the quantity of work, extremely demanding; it is about interventions in the purely civil field composed of planning, site supervision and assistance of general test of small houses, industrial and artisan warehouse and restoration plans

Other activities

Owner since 1994 of “**DE COL RUSSI & engineering associations**” with residence in Milan, and since September 1998 owner of “**D.C.R.P.R.O.getti engineering associations**” with residence in Milan and in Bergamo, and since June 2006 owner of “**DCRPROGETTI s.r.l. Design and Consulting**” with residence in Milan.

In collaboration with those some projects have been carried out.

2022 – on going	STED - ENGITEC	Planning and design of modularized steel structures for a waste battery disposal and treatment plant located in a very high seismic area - Indonesia Manyar Maju (MMR) Project. In-service and lifting analysis.
2022	SAIPEM	Planning, design, drawing and 3D Tekla modeling of steel support for piping and cable trays of jetty for BONNY LNG TRAIN 7 PROJECT - Nigeria.
2022	CTP TEAM S.R.L.	Detailed design of a steel structure for heat-exchange support, of revampig of two new bag filters, including reinforcements of the reinforced concrete support structures and ducts or the cement factory - Bishah - Saudi Arabia. In-service and lifting analysis.

2019-2022	SAIPEM	Planning, check, design, drawing of steel structure modules and reinforced concrete structure with relevant foundations for Refinery THAI OIL Clean Fuel project – Shiracha – Thailandia. Analysis of different phases of construction, transportation procedure, load out phases and in-service condition
2020-2021	STED – ISG TECNIMONT	Design of steel structure - Refrigeration Package - New European PDH Kallo Project – Borealis - Kallo – Belgium.
2020	GI.AN. ENGINEERING – BONO ENERGIA	Design of two modularized steel structure skids with in-service, transportation and lifting analysis - Polyol Project – MOLGROUP – Refinery of Tiszaújváros – Hungary.
2020	MANGIONE CAPPELLO	Design and construction supervision of structural works for the union of two housing units in Corso di Porta Romana in Milan
2019-2020	ALMONDO BURATTI	Design and construction supervision for a structural intervention in an apartment in via Cusani on the corner of Largo Cairoli in Milan
2019	DESMET BALLESTRA	Design of a walkway for acces the roof of a storage tank of concentrated phosphoric acid – FLSmidth – Israele.
2019	ENI PROGETTI	Planning, check, design, drawing of a pump reinforced concrete basin with shelter, walkway and other support - ORF Debottlenecking Project PEMEX – Messico
2019	SAIPEM - XSIGHT	Basic design of pile foundations for a reconversion plant Organic Fraction Urban Solid Waste to fuel and gas – Syndal - Porto Marghera (VE) and Manfredonia (FG).
2018-19	SAIPEM	Planning, check, design, drawing of five reinforced concrete building for revamping Takoradi-Tema Interconnection project - Ghana
2018	Municipality of Spino d'Adda (CR)	Validation of the project for energy recovery and structural reinforced concrete of two school buildings. Amount of work 4 million euros
2018	Municipality of Ponte San Pietro (BG)	Seismic analysis to check the vulnerability of existing Matteo Legler Stadium. A reinforced concrete structure with a height equal to 11 m and length 55 m with a cantilever roof with a span equal to 8 m. – Construction data 1950
2017	SIIRTEC NIGI	Designs of three steel structure modules for ADCO AL DABBIYA (UAE). Analysis of different phases of construction, transportation procedure, load out phases and in-service condition.
2017	STED	Planning, designs and draw of pipe rack and steel structures for ARU for plant Jurassic production Facility (JPF) at Sabriya (Kwait) – SIIRTEC NIGI. Analysis of different phases of construction, lifting procedure, transportation procedure, load out phases and in-service condition.
2017	SIIRTEC NIGI	Road transportation analisysy of ten steel structure modules for ARU for plant Jurassic production Facility (JPF) at Sabriya (Kwait).

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2017-2010	ROTA	General, structural, architectural, plant engineering and safety design and construction supervision of two-family residential building. Static test - CENED class A4 Certificate - KlimaHaus GOLD Certificate. Province of Bergamo
2017	DG Impianti Industriali	Planning, designs and draw of two steel structure modules for the LNG production and loading terminal in Port Vysotsk - STAGE III (Russia) – SIIRTECNIGI. Analysis of different phases of construction, lifting procedure, transportation procedure, load out phases and in-service condition.
2017-2018	Municipality of Ponte San Pietro (BG)	Design and construction supervision of maintenance structural civil works of the Matteo Legler Stadium to obtain the fire prevention certificate with repair of reinforced concrete structure. Coordinator for safety and health, during designing and execution phases (Decree Law 494/96)
2017	R.I.N.A	Planning, designs and draw of reinforced concrete transformers basins of Combine Cycle Power Plant in Porto de Sergipe (Brazil)
2017-2018	Mr. Pellegatta D. Volta street, 16 CESANO MADERNO (MI)	Structural design and construction supervision of residential building renovation.
2014-2018	SAIPEM	Planning, check, design, drawing of steel structures pipe rack and reinforcement concrete foundation of the revamping ARAMCO Petroleum GOSP Plan (Khurais – Saudi Arabian)
2016	Mrs. TEODORI Vallere street, 8 MARTINENGO (BG)	Residential building renovation with enlargement works' amount € 150,000. Coordinator for safety and health, during designing and execution phases (Decree Law 494/96)
2016	Apartment building XX September street 35 CARUGATE (MI)	Coverage Remaking works' amount € 20,000 Coordinator for safety and health, during designing and execution phases (Decree Law 494/96)
2014	SAIPEM	Preliminary structural design of pipe racks, structures and foundations - AL-RATAWI - IRAQ
2014-2016	SAIPEM	Estimation of Equipment reinforced concrete foundation (gas turbines, fans, vessels, pumps and basins) – Fertilizer project Plant – Dangote - Nigeria
2014-2016	SAIPEM	Planning, check, design, drawing of steel structures and relevant foundations for the new EP(D)M GP27-VERSALIS FERRARA plant in earthquake area 3 in accordance with NTC2008 italian codes, structural fire resistance analyses included
2014	SAIPEM	Preliminary structural design of structure for coal bunker - New Caledonia
2013 – 2015	GICO TECNICA	Planning, check, design, drawing of steel structures pipe rack and shelter of ARAMCO Refinery (Jazan – Saudi Arabian)

2013	DG Impianti Industriali	Coordination of structural design and calculation of steel structures for Kazatchya Gas Treatment Plant (Krasnodar - Russia)
2012	TECNOMARE	Feasibility study and detailed design of support structures and foundations related to the Slug Catcher in the Perla Early Production Plant - Venezuela.
2011	TECNOMARE	Estimation of civil engineering project Kadanwari Renj Pakistan
2012 - 2013	ENI – Versalis spa	Maritime structural requalification of the Sarroch (Cagliari) jetty docks (1200 m length). The analysis required a feasibility study for the requalification of the two existing platforms to dock vessels with a major DWT then the present one (respectively from 6000 DWT to 9000 DWT and from 18000 DWT TO 25000 DWT). This study allowed the issue a technical specification for the NDT research execution, necessary to define the parameters necessary to the detailed design of the structure requalification interventions.
2012 - 2014	SAIPEM	Planning, designs and draw of pipe rack and steel structures with relevant foundations, compressors foundations for the petroleum GOSP plant Southern Swamp Associated Gas Solution in TUNU – Nigeria. Analysis of different phases of construction, lifting procedure, transportation procedure, load out phases and in-service condition.– 1500 tons of steel and 100 cubic metres of concrete.
2012	CEPAV DUE	Planning, structural and hydraulic design and drawing of reinforced concrete culverts Roggia Sircone, Roggia Morletta, Roggia Navarezza, IN90 and IN26 - T.A.V. – HIGH SPEED RAILWAY – (300 km/h) – section from Milan to Brescia of train line Milan – Venice
2012	SAIPEM	Summary documents redaction level 0 with plant supervision following OT num. 3274 of 20th of march 2003 for 53 strategical buildings for civil protection or in case of collapse due to seismic events in Refining & Marketing S.p.A. Plants. Refinery of Venice, Ravenna and Bari, in the stocking plant of Porto Torres (SS), Calenzano (FI) and Naples, Fornovo di Taro (PR) plant and in the gas plant of Sarroch (CA)
2011	SAIPEM	Structural design and calculation of module for Staatsolie Refinery Expansion Project - Suriname. Analysis of different phases of construction: lifting procedure, transportation procedure, load out phases.
2011	SAIPEM	Planning, designs and draw for steel structures modules - LNG Plan Woodside – Australia. Analysis of different phases of construction, lifting procedure and in-service condition.
2010/11	CEPAV UNO	Drawing check for database INRETE2000 High Speed Railway – Milan – Bologna
2010	SAIPEM	Planning, designs and draw for equipments reinforced concrete foundation NIGERIA RIVER STATE

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2009	SAIPEM	Structural design and calculation of an offshore module for OLT (Offshore LNG). Analysis of different phases of construction: lifting procedure, transportation procedure, load out phases
2008-2009	SAIPEM	Basic design with supervisions of the revamping for steel and reinforced concrete structures of Borealis Chemical Plant in Linz – Austria.
2008	SNAMPROGETTI S.p.A.	Planning, designs and draw for Daharki Site Expansion Project - ENGRO – Concrete drawing and computing for foundation equipments.
2008	SAIPEM ENERGY SERVICES S.p.A.	Plannig, designs and draw for site preparation of the Tuomo Gas Flow station in Nigeria for the N-LNG Gas Supply Project (TUOMO –Nigeria) – Jetty, road and embankment preparation - Steel and concrete design, drawing, computing and technical document preparation with L.R.F.D. and A.C.I. code.
2008	SAIPEM	Offshore design of steel platforms called Thekah 2 and Thekah North in the Mediterranean Sea (Egypt) during various phases of construction: transport, lifting, positioning and on-bottom analysis
2008	SAIPEM ENERGY SERVICES S.p.A.	Planning, check, design, drawing of reinforcement concrete structures, steel structures and relevant foundation, foundations of equipment of revamping and upgrade of Petroleum GOSP Plan (Ebocha – Nigeria) 5,000 tons steel – 13,000 m3 concrete
2007-09	SAIPEM ENERGY SERVICES S.p.A.	Planning, check, design, drawing of reinforcement concrete structures, steel structures and relevant foundation, foundations of equipment of revamping and upgrade of Petroleum GOSP Plan (M'Boundi – Congo)
2007	SNAMPROGETTI S.p.A.	Planning, check, design, drawing of reinforcement concrete culvert and foundations of equipment of Polyethelene production Plan (QATOFIN – Qatar)
2007-08		Planning, check, design, drawing of reinforcement concrete Water Intake of Bandar Abbas Condensate Gas – Iran (10,000 m2)
2006-08	SNAMPROGETTI S.p.A.	Planning, check, design, drawing of steel structures pipe rack and reinforcement concrete foundation of ARAMCO Petroleum GOSP Plan (Khurais – Saudi Arabian) – 10,000 tons steel
2005-07	SNAMPROGETTI S.p.A.	Planning, check, design, drawing of steel structures pipe rack, precast reinforcement concrete pipe rack, foundation of equipment, turbines, pumps, stack, boilers, tanks and vertical and horizontal vessels of ARAMCO Petroleum GOSP Plan (Khursaniyah – Saudi Arabian) – 30,000 tons steel – 60,000 m3 concrete
2004-09	CEPAVUNO	Maintenances specifications documents of galleries, subways, overpasses, embankments, viaducts, roads and railways and Po River Bridge about T.A.V. – HIGH SPEED RAILWAY – (300 km/h) – section from Milan to Bologna (180 km) of Railway line Milan – Naples. Technical document preparation and training document presentation.

2003-04	SNAMPROGETTI S.p.A.	Stress-analysis design of some modules of Production Platform (Escravos – Nigeria) in every typical conditions for a marine structures: load-out, sea transport, lifting and operation, with the check of all members and node with A.I.S.C. code.
2003-04	SNAMPROGETTI S.p.A.	Stress-analysis design of steel structures and relevant foundation of VIVA METHANOL (Nigeria) with the check of all members and node with A.I.S.C. code.
2003-04	Immobiliare Erminia CREDARO (BG)	Design and supervision of work of concrete diaphragm (perimeter 270 m), post-tensioning anchorages and jet-grouting (area 2.770 m ²) – excavation deeph 5,5 m. – ISEO Lake.
2003-04	SNAMPROGETTI S.p.A.	Planning, check, design, drawing of steel structures pipe rack, reinforcement concrete structures, foundation of columns of Petroleum GOSP Plan (Qatif – Saudi Arabian) – 10,000 tons steel – 500 dwg
2001	SNAMPROGETTI S.p.A.	Planning and checks of Monitoring System of galleries, subways, viaducts, roads and railways about T.A.V. – HIGH SPEED RAILWAY – (300 km/h) – section from Milan to Piacenza (40 km) of train line Milan – Naples
2000-02	SNAMPROGETTI and CEPAV UNO	Planning and checks of Costruction Projects of some galleries, subways, viaducts, roads and railways about T.A.V. – HIGH SPEED RAILWAY – (300 km/h) – section from Milan to Bologna (180 km) of train line Milan – Naples.
2000	Municipality S.OMOBONO IMAGNA (BG)	Design of concrete gymnasium with steel roof (15.000 m ³)
2000	Municipality VILLA D'OGNA (BG)	Connections detailed design of pedestrian steel bridge on Serio River.
2000	Municipality COLOGNO AL SERIO (BG)	Design of a concrete pedestrian subway
1999/00	Municipality MOZZANICA (BG)	Design and supervision of work of concrete gymnasium with steel structurel roof (15.000 m ³)
1999/00	Municipality MOZZO (BG)	Design and supervision of work of concrete library (5.000 m ³)
1998/99	SASP Offshore Engineering	Asgard B (Norway) Semisubmergible platform Design of secondary steel structures (beam, piping support and counter-saddle of horizontal and vertical vessels) modules M15 e M16 (3000 hours). Fatigue checks due to wave motion and checks due to blast loads.
1998	SNAMPROGETTI	Adnoc Ruwais Refinery Expansion (Abu Dhabi – E.A.U.) Design of steel structures (piperack) (800 ton)
1997/98	SNAMPROGETTI	Planning and checks of 800 documents (calculation reports and drawings) of Preliminary Project about T.A.V. – HIGH SPEED RAILWAY – (300 km/h) section from Milan to Bologna (180 km) of train line Milan - Naples (since October 1997 to February 1998)'

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1996	OCRIM S.p.A. (CR)	Check of a steel structure tower of cereal storage in JAKARTA – Indonesia (h 60 m.)
1994/97	SNAMPROGETTI S.p.A.	Planning and design of steel and reinforcement concrete structures with stress-analysis, modal and spectrum analysis and time history for a Hydrocarbons Storage subjected by blast loads, with members checks
1994/95	ABB S.p.A.	Design of foundations of silencers, stacks and transformers of Power Plant in ABU FONTAS, QATAR
1994	SNAMPROGETTI S.p.A.	Design and draw of steel structures and concrete foundations of Oil Refinery in Milazzo (ME)
1993	TECNIMONT S.p.A.	Design of pipe rack steel structures of Polipropilene UFA plant.
1993	ABB S.p.A.	Extension de gazducs G01/G02 Hass R'Mel (Algeria): design of concrete pipe supports of cooling plant.
1992	Ce.A.S. S.r.l.	Design and checks of Construction Projects of some artificial galleries about T.A.V. – HIGH SPEED RAILWAY – (300 km/h) – section from Milan to Bologna (180 km) of train line Milan - Naples
1992	TPL S.p.A.	Ethlene Plant Beijing Dongfang Chemical Works (CINA): design and draw of steel structures (pipe rack).
1992	ALPINA S.p.A.	HIGH SPEED RAILWAY – section of Milan-Genoa: design of bridge (steel and concrete) for length between 30 m and 60 m.
1992/93	ABB S.p.A.	Power Plant of Al Taweelah, Abu Dhabi (EAU): design of concrete structures (pump house and desalination).
1991	SICOM S.p.A.	Design of Power House and Electrical Control Building of the Power Plant of Bisotoun (IRAN) (3000 tons)
1991	ITIN SACMA S.p.A.	ENEL, Electrical Power Plant of Piombino (LI): design and draw of steel structures of a depuration plant (ca. 500 t)
1991/92	SNAMPROGETTI S.p.A.	Sea transportation, load out, lifting and operating conditions analysis of the deck and some modules of SAFANYIA Production Platform (Saudi Arabia – Persian Gulf)
1991	NOVA S.p.A.	Design and draw of steel structures of plant Fertinex - (Messico) (ca. 300 t)
1991	PUBBLIBABY S.p.A.	Design of foundation of a office house of two precasted concrete factory shed. (Cusago -MI)

Software knowledge: Operative system: Microsoft Windows Operating Systems

Office automation: Microsoft Office suite

Structural analysis: GTStrudl, XFinest, SAP2000, CSFOND, SACS