

Dr. Attilio Iannuzzi *Ingegnere Ph.D.*

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CURRICULUM VITAE

NAME: Attilio Iannuzzi

DATE OF BIRTH: 06 January 1959

MARITAL STATUS: married (1992) w/ 2 children

EDUCATION & MAIN WORK EXPERIENCE:	1978	Diploma Scientific High School
	1978-1984	Degree in Civil Engineering at the University of Florence
	1985	Registered Civil Engineer
	1984-1987	Research Fellow in Structural Engrg. at the Cable Research - Politechnic of Central London - PCL - London (UK). Has participated as main researcher to a research project financed by CNR and SERC (Italian and British Reserch Councils).
	1987	Ph.D. in Structural Engineering discussing the thesis on "The Dynamic Response of Guyed Masts to Simulated Wind"
	1984-1988	Author of scientific publications on international Civil Engineering magazines including the "Journal of the American Society of Civil Engrgs" (US) and "Proceedings of the Institution of Civil Engineers" (UK). Member of IASS - International Association for Shell and Spatial Structures, has participated to the Congresses of Moscow (1985) & Toronto (1987). As member of CISM (Center for International Mechanic Studies), has attended to various seminars about structural mechanics, dynamics and Finite Element Methods.
	1988 - 1990	Senior Structural Engineer at Prisma Spa - subsidiary of TPL Spa (ROME) - actually Technip Italie, working mainly on design of 4 Food Complexes in Ethiopia (Addis Ababa, Hammaressa, Asmara & Dire Dawa) and of various RC and steel structures for Oil & Chemical Industry. In particular I followed up the approval of the design in Ethiopia.
	1990 -	Civil/structural engineering consultant working mainly in the design of RC and steel structures for Oil, Chemical & Steel Industry
	1993 - 1995	Structural consultant to Belleli Spa - Mantova - Italy - for the construction of the Hull of the Mars TLP (Tension Leg Platform) for Shell Offshore Inc. - Houston - Texas. My duty was to propose/contact Client and implement solutions for any problem at the construction/erection site in Taranto (<i>field Engineer</i>)
	1995-1999	Structural consultant to Shell Offshore Inc. - Houston - Texas - for the construction of the Hulls of the Ram Powell and Ursa TLPs (Tension Leg Platform) to be installed in the Gulf of Mexico. My role was Assistant of the Project Civil Engineer.
	1999 -	Since 1999 works exclusively as Civil/structural engineering consultant in association with two other engineers, working mainly in (a) design of structures for Industries; (b) detailed engineering for steel structures manufacturers & offshore structures; & (c) safety.

DETAIL OF PROFESSIONAL EXPERIENCE

The Company develops about 50 projects per year, for a total amount of about 15.000 hours per year. In the following some of the projects developed are listed to detail the range of activity

(1992) PRISMA S.p.a. –Progetto “Risanamento Ponti Nastro” – ILVA Taranto – Rilievi e progettazione degli interventi da realizzare ai ponti nastro.

(1993) ILVA - Taranto - CET1: Riparazione Serbatoio di Acqua Distillata 64 - Rilievi e Progettazione Intervento di Riparazione di un Serbatoio in c.a. fortemente Lesionato.

(1994-1995) COMUNE DI MARTINA FRANCA - Progetto Strutturale di un Sovrappasso Ferroviario con Travi Precomprese nei pressi della Via Massafra - *(eseguito per Impresa Lamanna 2000 milioni di Lire)*

(1994-1996) COMUNE DI MARTINA FRANCA - Progetto Architettonico, Strutturale e Direzione Lavori di Costruzione di un Fabbricato per Civili Abitazioni, Uffici e Locali Commerciali in via Alcide De Gasperi

(1994-1998) COMUNE DI TARANTO - Appalto Concorso per i Lavori di Costruzione della Condotta Sottomarina per lo Scarico dell'Effluente dell'Impianto Epurativo a Servizio della Città Nuova di Taranto - Progettazione Strutture Opere a Terra, per conto Impresa Sparaco Roma in RTI - coordinatore ing. Buso

(1995-1999) HOTEL MINERVA - Brindisi - Intervento di Ristrutturazione ed Ampliamento del Complesso Alberghiero esistente - Progettazione e Direzione Lavori Ampliamento Hotel, Ampliamento Palazzina Servizi Tecnici e Palazzina Servizi Alberghieri

(1996-1997) FIAT AUTO - Torino - Centrale Termoelettrica Alta Pressione Mirafiori - Nuovo Impianto Produzione Acqua Surriscaldata - Rilievi, Progettazione Edile, Strutture Metalliche e in Cemento Armato, Progettazione di Dettaglio Strutture Metalliche

(1996-1997) FIAT AUTOMOVEIS SA - Betim Minas Gerais (Brasile) - Trattamento Biologico degli Effluenti Tecnologici 1^a Fase - Progettazione Opere in C.A. e Carpenteria Metallica per Impianti di Equalizzazione, Biofiltrazione, Sollevamento, e per Reattori a Letto Fluido *(eseguito per DESA srl - Torino - importo lavori 1800 milioni di Lire)*

(1998) ASL TA/1 - Installazione di un Ascensore Oleodinamico Esterno presso la Sede di viale Verdi a Castellaneta (TA) - Progettazione Architettonica, Strutturale e Direzione Lavori *(eseguito per OTIS Spa - importo lavori 200 milioni di Lire)*

(1998) MINISTERO DELLA DIFESA - GENIODIFE - ROMA - Lavori di Realizzazione Infrastrutture per Manutenzione e Supporto Attività Velivoli V/STOL - Collaudo Statico e Prove di Carico Strutture Hangar, Officina Armamento, Officina Lavorazione Motori, Area Servizi Centrale Tecnica e Officina Manutenzione Mezzi di Terra *(eseguiti per ITER Scarl - Ravenna - importo lavori 5000 milioni di Lire)*

(1999) REPSOL OIL CORP. - NC 115 DEVELOPMENT PROJECT - Progettazione Definitiva, Esecutiva e Costruttiva Strutture Metalliche Capannone per Turbocompressori ad Al Sharara (Libia), in accordo alla Normativa AISC *(eseguita per CEMIT srl - 500 ore - importo lavori 650 milioni di Lire)*

(1999) GREATER BAKU WATER SUPPLY REHABILITATION PROJECT (ABZERBAIJAN) - Progetto di Base e di Dettaglio di Travi Reticolari per Ponte Raschiatore con luce 25m, realizzati per conto di TERMOMECCANICA - Spezia con normativa BS 5950 *(eseguita per SERECO srl - 400 ore - importo lavori 500 milioni di Lire)*

(1999) CONDEA SpA - Augusta (SR). - IMPIANTO PEP DETAL - Progettazione Esecutiva e Costruttiva per Pipe-racks e Strutture Varie in Carpenteria Metallica realizzate per conto di TECHINT SpA

(2000) NUOVA CONCORDIA srl - Noci (BA). – PROGETTO PRINCIPESSA – Design of Reinforced concrete and steel structure for IMAX 3D Cinema in Castellaneta Marina (TA)

- (2000)** ILVA Spa – Impianto Bricchettaggio – Basic and detailed structural design for a total of 200 m of steel belt-conveyor bridges with span up to 35 m including corner towers and counterweight structures
- (2000)** ILVA Spa – Rete Adduzione Gas AFO – Basic and detailed structural and piping design for DN1600/2000 pipes and supporting structures for feeding of Batteries VI, VII, VII e IX
- (2000)** AGIP Raffinazione Spa – Progetto Ampliamento Parco Serbatoi – Architectural and Structural Design for RC and steel structures for new tank area
- (2001)** CEMIT s.r.l. – Progetto “Torre 4” – ILVA Taranto – Detail engineering for steel structures of “Torre 4”
- (2001)** SIDERMONTAGGI S.p.a. – Progetto “Modifica Sistema di Tensionamento Nastri A1-5 & A1-6” – ILVA Taranto – Basic and detailed structural design for steel new counterweight structure for tensioning of conveyors A1-5 & A1-6 and reinforced concrete foundations
- (2001-2003)** NUOVA CONCORDIA srl - Noci (BA). – PROGETTO PRINCIPESSA – Design of ancillary reinforced concrete and steel structures for family entertainment center “Felicia” in Castellaneta Marina (TA)
- (2001)** AGIP Raffinazione Spa – Progetto Nuova Sala Tecnica – Architectural and structural design for new control room.
- (2002)** INTINI ANGELO SPA – NOCI (BA) – Progetto di Adeguamento di Capannone Industriale a Sede della Società – Basic and detail design of steel and reinforced concrete structures for the renovation of an existing precast concrete to become the head office of the Angelo Intini Spa firm.
- (2002-2003)** TRENITALIA SPA Divisione Trasporto Regionale – Direzione Regionale Lazio - POLO MANUTENTIVO O.M.R. di Roma Smistamento – Survey and civil basic design for the project of improvement of fire protection and safety requirements (in temporary professional association – ATP - with Ing. Carallo)
- (2002)** AGIP Raffinazione Spa – Taranto - Bunkerizzazione Sala Controllo SOI 1 - Basic architectural and structural design for Bunkerization of Refinery SOI 1 main control room
- (2002)** NUOVO PIGNONE Spa – Firenze - Project FPSO PETROBRAS 50 - Turbogenerator P50 - Detail engineering for primary and secondary structures for P50 Offshore modulus
- (2002-2003)** TRENITALIA SPA Divisione Trasporto Regionale – Direzione Regionale Campania - POLO MANUTENTIVO O.M.R. di Napoli Campi Flegrei, Benevento e Salerno - Survey and civil basic design for the project of improvement of fire protection and safety requirements (in temporary professional association – ATP - with Ing. Carallo)
- (2003-2004)** SAIPEM Contracting Nigeria Co. – Detail engineering of primary and ancillary structures (1200 tons) for Nigeria Deepwater Erha platform offshore moduli
- (2004)** ENI Spa – Divisione Refining & Marketing - Progetto di “Modifica Effluent Line” – Hydraulic design, reinforced concrete, steel and temporary structures for the modification, while in service, of the effluent of the 20000 mc/h effluent of Taranto Refinery
- (2004)** INTINI ANGELO SRL – NOCI (BA) – Progetto Preliminare Opere Civili per “Affidamento del Pubblico Servizio di Gestione del Sistema Impiantistico RSU costituito da Impianti di Compostaggio, Centro di Lavorazione e Stoccaggio dei Materiali Provenienti dalla Raccolta Differenziata, Centro di Selezione e di Termovalorizzazione” Bacino di BR/1 (Brindisi – Italy)
- (2004)** ENI Spa – Bunkerizzazione Sala Controllo SOI 1 - Detailed architectural and structural design for Bunkerization of Refinery SOI 1 main control room
- (2004)** ROMAGNOLI Spa – Progetto per il Risanamento del Palazzo degli Uffici a Taranto – Design of temporary structures for the renovation of an historical building
- (2004)** SAIPEM Contracting Nigeria Co. – Detail engineering for 700 tons of East Area Project Offshore moduli steel

structures for Jackets GR1 - GR2 e GR3

(2004-2006) ENI Spa – Div. Refining & Marketing – Safety co-ordination of the following works : (1) Bunkerization of Refinery main control room SOI1; (2) Installation of RHU Reactor; (3) Installation of E-335 Packinox Exchange ; (4) New Water Reuse plant; (5) Substitution of the loading arms at the Refinery berth ; (6) Realization of the new flare for Plant Area 1; etc

(2004) SAIPEM Contracting Nigeria Co. – Detail engineering for steel structures of Riser Protectors, Access Platforms & Barge Bumpers for East Area Project

(2005) ENI Caspian Yard Development - Kazakhstan – Basic and detailed engineering for steel structures and foundations for 3 18x30x10(h) m blasting and painting buildings

(2005) TRENITALIA SPA - Divisione Trasporto Regionale – Direzione Regionale Lombardia – Siti di Milano Farini, Milano S.Rocco, Cremona, Lecco, Bergamo, Sondrio e Treviglio - Survey and civil basic design for the project of improvement of fire protection and safety requirements (in temporary professional association – ATP - with Ing. Carallo)

(2005-2006) KHUSANIYAH GAS PLANT (KGP) Project - SAUDI ARAMCO Arabia Saudita - Bechtel Technip Joint Venture – Design of various structure and equipment reinforced concrete foundations according to ACI standards (all documents in english)

(2005-2006) SAIPEM Contracting Nigeria Ltd – Progetto East Area EPC1B - Detailed engineering for 700 tons of steel offshore structures for Bridges B1, B2 & B3, Jacket, Flare e n. 2 Deck

(2006-2007) SAIPEM Contracting Nigeria Ltd. – Progetto East Area EPC1B – Specialistic consultancy for lifting, rolling and transportation activities of offshore subassemblies and assemblies

(2006) SNAMPROGETTI - Progetto “Augmentation du Systeme de Transport Transtunisien” – Sbeitla and Korba Compression Stations – Architectural and structural design of Refectory, Workshop and Transformer buildings (all documents in french and according to french standards)

(2006) FENICE Spa (Gruppo EDF)- Nuovo Stabilimento BARILLA di Pedrignano (Vicenza – Italy) – New Cogeneration Plant – Structural design of turbogenerator foundations

(2007) PEC s.r.l. - Progetto “Struttura di Supporto per Degasatori C-2707/C-2708 – Structural design of steel structures and foundations for a 4 level industrial structure to support columns C-2707/C-2708

(2007) SAIPEM Contracting Nigeria Ltd. – Progetto East Area EPC1B – Detailed engineering for grillage & seafastening steelwork to transport Bridge B1, B2 & B3

(2007) SAIPEM Contracting Nigeria Ltd. – Progetto “ Flowline Skirted Anchors” – Detailed engineering for steel structures of Flowline Skirted Anchors for the delta of Niger area

(2007-2009) FENICE Spa (Gruppo EDF) – New Cogeneration Plant at Barilla-Voiello factory in Marcianise (Caserta – Italy) – Detailed design and supervision during construction for reinforced concrete and steel structures (precast concrete main bldg foundations, turbogenerator foundation, transformers, slop collecting basin, pipe rack, shelters etc

(2007) ECONOVA APULIA s.r.l. – Taranto Refinery - “Sulphur Solidification and Stockage Plant” project – Detailed design of reinforced concrete structures and foundations (buildings, basins, steel structure and rack foundations, pumps, vessels and tanks)

(2007-2009) DELTUR s.r.l. – Architectural design of two buildings for civil occupancy in Martina Franca (Taranto – Italy)

(2007) SAIPEM Contracting Nigeria Ltd. – Progetto “ East Area EPA” – Detailed engineering of offshore steel structures for Iyak-B e Unam-D platforms, installation aids, valve access platform, fire barrier, boat landing e maintenance access platform

(2007-2008) IMPES s.r.l. – Jubail Export Refinery – Progetto “Distillate Hydrocracker Unit” – Structural design of various steel, reinforced concrete structures and foundations (basins, compressors,pumps etc) according to ACI standards (all documents in english)

(2007-2008) PEC s.r.l. – “New Firewater Pumping Station” project – Milazzo Refinery (Messina – Italy) – Basic and final structural design of main steel building and shelter, and reinforced concrete structures and foundations (basin, pumps and other equipment) on top of an existing reservoir

(2008) IMPRESA DOMENICO CASSALIA – Progetto “Nuovo Fabbricato Interno” presso Capannone Aziendale e Magazzino” - San Giorgio (Taranto – Italy) – Survey and design of a reinforced concrete structure to be realized inside an existing precast concrete building

(2008) PEYRANI S.p.a. – Progetto “Ripristino Macchina di Ripresa BF/3” – ILVA Taranto – Specialistic consultancy for lifting equipment, lifting activities and procedures for the renovation of the largest crane in the ILVA steel plant in Taranto

(2008) INTINI ANGELO S.p.a. – Progetto “Impianto di Termovalorizzazione” di Casteltermini (Agrigento – Italy) – Progettazione di strutture in carpenteria metallica e fondazioni per Edificio Ricezione e Sala turbo Generatore, e strutture in cemento armato per Edificio Elettrico-Sala Controllo

(2008) TECNOMEC s.r.l. Technip S.p.a. – Progetto “Hydrogen Generation Unit” – Detailed engineering for the construction of 5 modules of a furnace.

(2008-2009) PETROMAR ANGOLA – Total E&P Angola Block 17 – Detailed engineering for steel offshore structures : Deck, Jacket e Vent Boom

(2009) PETROMAR ANGOLA – “Ambriz Yard Rehabilitation Project” – Ambriz (Angola) – Design of reinforced concrete foundations for no. 2 large workshop buildings

(2009) SAIPEM S.p.a. – ENI Boscongo – “New Painting Cabin” – Design of reinforced concrete foundations for a self-supporting arch hangar structure

(2009-10) SAIPEM Contracting Nigeria Ltd – Progetto “USAN” – Detailed engineering for steel structures of a 20 m diameter, 15 m tall, rotating Buoy for Naval unit loading (more than 700 shop drawings)

(2009-10) SAIPEM Spa – Karimun Yard Construction Project – Design of reinforced concrete pile foundations foundations for various large and medium size steel buildings, equipment and other items foundations for the new Saipem Yard in Indonesia, according to ACI-318 Code (about 15 Calculation Reports and 200 drawings)