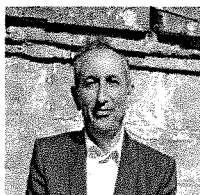


EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name **FRANCIOTTI DINO**
Address **VIA BELVEDERE, 41 – 65013 CITTÀ SANT'ANGELO (PE) - ITALY**
Telephone **+390862437242 (work) +393298312309 (work mobile) +39335486315 (personal mobile)**
Fax **+390862410795**
E-mail **franciotti@lngs.infn.it**

Nationality Italian
Date of birth 03/08/1958

WORK EXPERIENCE

- Dates (from – to) [1987-1987]
• Name and address of employer Istituto Tecnico Industriale Statale "Fioravanti" di Bologna
• Type of business or sector Education – High School
• Occupation or position held Temporary Professor
• Main activities and responsibilities Teaching Mathematics at a technical High School

- Dates (from – to) [1988-1989]
• Name and address of employer Nier Ingegneria S.p.A
• Type of business or sector Consultancy firm in the field of industrial risk analysis
• Occupation or position held Junior analyst
• Main activities and responsibilities Data collection at chemical plants in collaboration with a senior engineer, first screening of hazards, preliminary risk assessment

- Dates (from – to) [1990-1994]
• Name and address of employer Italian National Institute of Nuclear Physics (INFN) – Gran Sasso National Laboratory (LNGS)
• Type of business or sector Fundamental research in physics

- Main activities and responsibilities
 - Duty to handle the safety problems of underground Gran Sasso Laboratory. The Laboratory was at the beginning and safety of work places and activities must be organized both from technical and organizational point of view. I was involved in definition of responsibilities' sharing between Laboratory staff and scientific Collaborations and in evaluation of safety plants to be realized. I covered the role of contact person for INFN in the relationship with road traffic and general safety authorities.
 - The Safety Service had also the responsibility for management of existing safety plants and design and realization of additional safety plants to be realized when the road tunnel (where the laboratory is located) was opened to traffic.
- Coordination of staff
 - I was appointed as coordinator of major works on civil structures and technological plants in underground laboratory decided to make LNGS activities compatible with road traffic. I had also the responsibility of and coordinating LNGS technical staff involved in these works (4 Engineers). Member of BOREX Collaboration.
- Publications
 - In 1993 I was co-author of a paper on the topic of safety in underground presented at MINESAFE congress held in Sydney, Australia
- Dates (from – to) [1995-1999]
 - Name and address of employer Italian National Institute of Nuclear Physics (INFN) – Gran Sasso National Laboratory (LNGS)
 - Type of business or sector Fundamental research in physics
 - Occupation or position held Head of Safety Plants Service and Head of Prevention and Protection Service
 - Main activities and responsibilities
 - Coordination of LNGS activities in the field of procedural safety and technical safety. Preparation of first official document reporting the risk evaluation for LNGS activities, including a program for risk mitigation. Agreement with involved authorities of the first integrated safety and evacuation plan of Gran Sasso Laboratory and road tunnel. Preparation of the technical documents for approval of LNGS activities from fire safety point of view. Coordination of all the phases involved in realization of the necessary safety plants: designing, tenders for choosing contractors, installation, final testing.
 - Coordination (Chief Engineer and works Director) of realization and testing phases of a major integrated safety plants system, in cooperation with CERN experts for testing.
- Coordination of graduate students
 - Member of INFN National Committee for Technology Transfer.
 - I set up and coordinated a group of graduate and post graduate students in engineering with the aim of performing risk analyses and CFD simulations to study accidents' consequences and improve design of safety plants.
- Dates (from – to) [2000-2005]
 - Name and address of employer Italian National Institute of Nuclear Physics – Gran Sasso National Laboratory
 - Type of business or sector Fundamental research in physics
 - Occupation or position held Head of Safety Plants Service

<ul style="list-style-type: none"> • Main activities and responsibilities 	<p>Coordination of the LNGS activities in the field of technical safety. Coordination of civil and technological works to improve fire safety of underground laboratory including an original fire proof doors installation, integrated with a a cooling plant. Member of National Committee of INFN for Technological Transfer. Member of RIS (Regional Innovation Strategies) Committee of Regione Abruzzo.</p> <p>Member of joint research group with CERN to study the use of water mist in both laboratories. Member of joint group with CERN to address the common problems of people localization and cryogenic safety. In 2000 I passed the exam to become "Primo Tecnologo", which is the first step in the career path of graduate engineers in INFN. After Borexino accident in hall C of underground laboratory, appointed judicial keeper of sequestered hall C.</p> <p>Coordination of numerous studies with the aim to improve the safety of aquifer within which the laboratory is located. Coordination of relations between Laboratory staff and governmental Commissioner appointed to improve the safety of the Laboratory and aquifer.</p>
<p>Coordination of graduate students</p>	<p>Coordination of a group (3-4 engineers) of graduate and post graduate students that continued the risk evaluation activities and CFD simulations of consequences of possible accidents inside underground laboratories.</p>
<p>Supervision of students</p>	<p>Co-examiner for two degree thesis in Engineering at L'Aquila University. One thesis on application of Montecarlo method for reliability analysis of LNGS power distribution and the second on application of Hazard Operability (Hazop) method for Safety assessment of ICARUS T10 prototype.</p>
<p>Publications</p>	<p>Co-author of 4 papers presented at ESREL (European Safety and RELiability) 2001 Congress, held in Turin, and 2003 held in Maastricht, and presented at 3d and 4th High Energy Physics Technical Safety Forum, Fermilab (Chicago) and LNGS, about applications of different methods, Failure Mode and effect analysis (FMEA), FMECA, Hazop, Montecarlo programs, for safety evaluation of some LNGS experiments, use of CFD (Computerized Fluid Dynamic) for studying consequences of possible accidents involving LNGS experiment and Fire Engineering methods.</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and address of employer <ul style="list-style-type: none"> • Type of business or sector • Occupation or position held 	<p>[2005-2008]</p> <p>Italian National Institute of Nuclear Physics (INFN)– Gran Sasso National Laboratory (LNGS)</p> <p>Fundamental research in physics</p> <p>Head of Operation and Maintenance Service</p>

- Main activities and responsibilities

Management of all technological and civil infrastructures of the Laboratory. Coordination of civil and technological works made by Commissioner. Effort to improve and standardize the different technological plants, to realize a unique supervision and control system, to integrate into this supervision system the new plants realized by Commissioner. Effort to create an efficient and cohesive team with people coming from different services. Studies of water mist technology for LNGS. Coordination of designing, procurement and installation phases for main fire fighting plants and uninterruptible power supply of LNGS. Work to face the problem of relations between experiments collaborations and LNGS staff in order to make them more efficient. Studies of the problem of reducing the running cost of Laboratory. Participation in the efforts to find external funds. Responsible of training program funded by Regione Abruzzo in the frame of a training program for young people of 2 million euro value. Liason Officer at LNGS. On behalf of Conferenza delle Regioni member of RIDITT (Rete Italiana per la Diffusione dell'Innovazione e per il Trasferimento Tecnologico). Passed in 2005 the exam to be elevated to the grade of "Dirigente Tecnologo", the upper level in the career path of an engineer at INFN.
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- Supervision of students

Teaching duties as a tutor for 2 post graduate students in the frame of training program funded by Regione Abruzzo and for 2 post doc students paid by INFN. The topics were the application of Supervision Control and Data Acquisition (SCADA) programs at LNGS plants, the use of Stirling Cycle in Icarus T 600 Cryogenic Plant, the use of CFD programs in fire and safety engineering.
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- Publications

Co-author of a paper presented at ESREL 2007, held in Stavanger (Norway) about the efficiency of use of water mist technology to help people evacuation from LNGS underground laboratories
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- Dates (from – to) [2009–Today]
 - Name and address of employer Italian National Institute of Nuclear Physics (INFN) – Gran Sasso National Laboratory (LNGS)
 - Type of business or sector Fundamental research in physics
 - Occupation or position held Head of Technical Division
 - Main activities and responsibilities

Coordination of 6 Services and 30 people about . Responsibility for management, maintenance, improvements, new project involving all LNGS infrastructure, buildings and plants (ventilation, cooling, electric and safety plants). Coordination of a program to evaluate the effect of a big fire in Gran Sasso road tunnel and the possibility to control it in order to avoid the spreading inside the lab and to safely evacuate laboratories' users. Responsible of general services of Laboratory. Responsible for programs aimed to reduce costs, to make plants more efficient in terms of energy consumption, to integrate LNGS and experiments' plants in order to avoid unnecessary expenditures, to create an integration of available competences. in order to be able to run major projects without external consultants, to search for external fund, by allowing the use of competences and facilities for third parties. Responsible for contact with external technical authorities. Coordination of a program to evaluate the effect of a big fire in Gran Sasso road tunnel and the possibility to control it in order to avoid the spreading inside the lab and to safely evacuate laboratories' users.

- Supervision of students

Teaching duties as tutor and teacher for 2 post graduate students in the frame of training program funded by Regione Abruzzo and for 2 post doc students paid by INFN. The topics were the application of Stirling Cycle in processes with renewable energy sources, the improvement of energy efficiency for LNGS general plants, the evaluation of thermal insulation and energy use of LNGS buildings, and the use CFD programs in fire engineering.

Co-examiner for two degree thesis in Engineering at L'Aquila University. About voltage and current produced by forward and backward manoeuvres and coordination of relative protection systems at main (medium voltage) power network of LNGS.

- Publications

Co-author of 3 papers presented at High Energy Physics Technical Safety Forum, held in Stanford (US) 2011 and at ESREL 2009, 2010 and 2012, held in Prague (CZ), Rhodes (Greece) and Helsinki about the use of CFD program in fire engineering applied at major fires in road tunnel.

EDUCATION AND TRAINING

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification

[1993 -today]
Various Institutions

Risk evaluations, Management in public organizations, management of public procurements and works, fire safety, tunnel safety, environment protection, technological transfer, participation in European tender for research funding
Certificate of participation and learning
Corsi di aggiornamento professionale (professional updating courses)

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

[1992 -1993]
University "La Sapienza" in Rome

Techniques to protect workers and environment in the field of healthiness of work environment.
Chemical risk evaluation – concentration limits – exposition limits
Diploma di perfezionamento in "Tecniche di Protezione dei Lavoratori e dell'Ambiente" (Specialisation Certificate)

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

[1989 -1991]
Bologna University

Measurements of very low radioactivity levels in material to be used in underground physics experiments
Dottorato di Ricerca in Ingegneria Nucleare (Phd degree)

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

[1987 -1988]
Bologna University

Businnes Management
Specialization Certificate in Business Management

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

[1978 -1986]
Bologna University

Basic preparation in engineering (physics, mathematics, mechanics) and specialized in nuclear engineering
Laurea in Ingegneria Nucleare (University Degree in Engineering)

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

[1973 -1977]
Liceo Classico "Luigi Illuminati" di Atri

Classical arts. Ancient Latin and Greek. Philosophy
Diploma di Maturità Classica (baccalaureate)

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

[Italian]

OTHER LANGUAGES

[English]

- Reading skills [good]
- Writing skills [good.]
- Verbal skills [good.]

<ul style="list-style-type: none"> • Reading skills • Writing skills • Verbal skills 	<p>[FRENCH] [BASIC] [BASIC.] [BASIC]</p>
<p>SOCIAL SKILLS AND COMPETENCES</p>	<p>I think I have good capacity in working in team, in leading a team toward a shared objective by means of a good capacity of hearing people, understanding their feeling, smoothing contrasts, clarifying in confused situations what is important or not, giving behavioral example. I think that I have naturally these skills; 24 years of work experience in an challenging and in some way international environment enhanced my competences.</p>
<p>ORGANISATIONAL SKILLS AND COMPETENCES</p>	<p>I started my work at Gran Sasso Laboratory with coordination duty as Responsible person of Safety Service. Thereafter my coordination duties grew constantly in term of people and budget, till present when I'm responsible, as Head of Technical Division of Gran Sasso Laboratory, for a team of 30 people about. I think I had the capability to realize projects within assigned budget and time, despite of inconstant conditions as often happen in physics research environment.</p>
<p>TECHNICAL SKILLS AND COMPETENCES</p>	<p>I had the capability to use the most common computer utility programs (Office package), to use Internet, to understand technical drawings. Good knowledge of safety engineering, fire engineering, HVAC engineering. Some knowledge and experience in electric engineering. A large experience in public procurements.</p>
<p>OTHER PERSONAL INTERESTS</p>	<p>I love reading novels and poetry. I'm interested in philosophy in general and in science philosophy in particular.</p>
<p>DRIVING LICENCE(S)</p>	<p>Driving car License</p>
<p>ADDITIONAL INFORMATION</p>	<p>My contacts E-mail – franciotti@lngs.infn.it dino.franciotti@alice.it Tel. – +390862437242 (office) +390854454065 (home) Mob. – +393298312309 (work) +39335486315 (personal)</p>

PAOLI ANDREA

EDUCATION

Born 14/11/1965 in Pisa

Master Degree in **Civil Engineering** with specialization in Structural Designing at **University of Pisa**

Grade: 110/110 Magna cum Laude

WORK EXPERIENCE

July 2002 – to date

Primo Tecnologo at E.G.O. - European Gravitational Observatory - Pisa

Head of General Infrastructure Department

Responsible for the Department's budget definition and control.

Preparation and verification of engineering projects for buildings, infrastructures and relevant upgrades.

Definition of maintenance programs and supervision of their implementation.

Preparation of technical documents and specifications for calls for tenders.

Evaluation of tenders and management of relevant negotiations.

Management of contractor selections, control of costs and variances.

Supervision of work execution, checking quantities, commitments and payments.

Interface with the Virgo Scientific Collaboration.

Management of external advisers and audit of their work.

Interface with the Italian Authorities in relation to permitting procedures.

Responsible for buildings energy efficiency certification and energy saving project implementation.

Member of the group in charge of the conceptual design study for Einstein Telescope, project for an underground GW detector of 3rd generation.

In charge of Metrology, Alignments and Surveying Engineering activities

Project Manager for the Advanced Virgo Project

January 2016 – June 2016

Visiting Scientist at CERN - Geneva

Agreement EGO - CERN for scientific and technological collaboration in the field of Civil Engineering and Survey Engineering in relation to underground infrastructures.

July 1998 – June 2002

Tecnologo at I.N.F.N. - Pisa

Deputy site Engineer

Contribution to the development of civil works planning and implementation. Assistance in permitting procedures and legal authorizations for construction works.

Contribution to the coordination of the technical interfaces between the on-site construction and the Virgo Project team.

Contribution to the designing of the Virgo Site Layout.

Support in defining the Quality Assurance program and supervision of the implementation of the Quality Control procedures.

Assistance in the preparation of technical specifications for procurements.

Management of technical evaluation of tenders.
Assistance to external advisers in developing cost and schedule variances arising from construction activities.
Preparation of reports concerning construction activities on site.
Execution and management of GPS and topographic measurements.
Member of the Boards for the land expropriation procedures and the selection of the external advisers.

September 1994 – June 1998 **Professional Engineer at Studio Prof. R. Bartelletti Engineering Firm - Pisa**
Collaboration in several civil engineering structural design projects for road bridges, industrial and commercial buildings, hospitals, piers and large steel frame and reinforced concrete constructions.
Supervision and direction of site works.

QUALIFICATIONS

Since July 1996 Member of the **National Society of Professional Engineers.**
September 2017 Specialization in **Modeling of Mechanical Systems.**
May 2017 Qualification as **Energy Manager.**
March 2015 Specialization in **Project Management.**
September 2013 Specialization in **Safety management.**
May 2004 – March 2005 Specialization in **anti-seismic Structural Design** according to Eurocodes and Italian technical regulations.
June 2003 Specialization in **Energy Performance of Buildings.**
May 2000 Specialization in **Global Positioning System (GPS) Technology.**
March 2000 Qualification as **Quality Assurance Auditor (ANGQ).**
May 1998 Qualification as **Safety Coordinator** according to Laws 626/94 and 494/96.
October 1996 Specialization in **Bio-ecological Architecture.**

THESIS ADVISOR

November 2012 C.Violante, "Controllo e monitoraggio del laboratorio Virgo attraverso misure topografiche di alta precisione", University of Roma La Sapienza, Rel.: Prof. M.Marsella, Prof. C.Nardinocchi, Eng. A.Paoli.
December 2005 M.Celestino, "Analisi della rete di monitoraggio plano-altimetrica dell'antenna interferometrica per onde gravitazionali Virgo", University of Pisa, Rel.: Prof. G.Caroti, Eng. A.Paoli, Prof. A.Piemonte.

SELECTION OF PAPERS

M.Marsella, C.Nardinocchi, A.Paoli, L.Vittuari, A.Zanutta, "A Geodetic Reference Frame for the Virgo Interferometer", IWAA 2016 – 14th International Workshop on Accelerator Alignment – Grenoble, October 2016.

M.Marsella, C.Nardinocchi, A.Paoli, S.Scifoni, C.Violante, L.Vittuari, A.Zanutta, "*An Integrated Approach for Monitoring Soil Settlements at Virgo Site*", IWAA 2016 – 14th International Workshop on Accelerator Alignment – Grenoble, October 2016

The Virgo Collaboration "*Advanced Virgo Technical Design Report*", VIR-0128A-12, Virgo TDS, April 2012.

E.Calloni, F.Fidecaro, E.Majorana, F.Paoletti, A.Paoli, F.Ricci, P.Ruggi, G.Vajente, "*Differential GPS measurement check using the Virgo arms*", VIR-0723A-11, Virgo TDS, December 2011.

ET Science Team, "*Einstein gravitational wave Telescope conceptual design study*", ET-0106C-10, ET TDS, June 2011.

A.Paoli, "*GPS coordinates of the Virgo vertexes*", Virgo TDS, August 2008.

A.Paoli, "*Virgo and Topography*", h – The Gravitational Voice, n. 6 October 2007.

N.Gucci, A.Paoli, G.Tuoni, "*Gli effetti termoigrometrici della pioggia sulle murature*", Costruire in Laterizio, n. 57, Maggio-Giugno 1997.

"*Progetto di riqualificazione dell'area della Stazione Leopolda a Pisa*", published in Prof. D.Taddei, "*Architettura e Composizione Architettonica*", Ed. Alinea, Firenze, 1992.

"*Rilievo e restituzione di vari edifici rurali e fortificazioni nell'area di Volterra*", published in Prof. C.Caciagli, "*La casa colonica ed il paesaggio agrario nel volterrano*", Ed. Bandecchi & Vivaldi, Pisa, 1990.

CRISTIANA COLLOCA

Date of birth 06/01/1973

Italian

WORK EXPERIENCE

June 1998 – To date, “CERN (European Organization for Nuclear Research)”, Geneva, Switzerland.

Site Engineering Group (2015-to date)

- Deputy group leader. In charge of civil engineering & building projects (construction, refurbishment & consolidation); coordination for technical equipment and services in tertiary buildings
- Chair of CERN Space Management Forum

Safety Engineering and Environment Group (2010-2014)

- Deputy group leader. In charge of safety projects follow-up service, conformity reviews, safety in civil engineering and technical infrastructure
- Restructuration of the group, reallocation of resources
- Member of CERN Risk Management Cell

Facilities Management Group (1998-2009)

- Deputy group leader of Facility related activities: infrastructure up keeping, new constructions and maintenance of tertiary buildings and installation, services, etc.
- Responsible for civil engineering projects (construction and refurbishment); coordination for technical equipment and plants installation in tertiary buildings. In charge of annual infrastructure consolidation programs
- Responsible for special projects (asbestos removal, carbonation treatments etc).
- Tendering, contracting and procurement for outsourcing of site services
- Technical responsible of light logistic contract
- Coordination and planning of general technical services installation in the tunnels
- Chair of CERN General Services Technical Forum
- Safety and environment responsible for group/department activities.

August 1997 - May 1998

“Engineering Ingegneria Informatica S.p.A.”, Milano

Programmer

- Functional analysis and software programming (C, ORACLE, SQL and PL/SQL, C++; Visual Basic 5) training

For “Fedegari S.p.A.”, at the “Università degli Studi di Pavia”, Structural Mechanic Department

Design Leader

- Study and design of an autoclave prototype

EDUCATION

July 1997: University Degree in Civil Engineering at the “Università degli Studi di Pavia”.

July 1991: Scientific Certificate at the “Liceo Scientifico N. Copernico”, Pavia.

LANGUAGES

Italian: mother tongue. English and French: very good reading, writing and speaking.

Spanish: good understanding

HOBBIES

Literature and art; bridge; trips.