

**Fara Cioeta**

**CURRICULUM VITAE**

Fara Cioeta ha conseguito la laurea in Ingegneria Aerospaziale presso l'Università degli Studi di Roma "La Sapienza" nel 2007, successivamente, nel medesimo periodo, riceve l'abilitazione alla professione di Ingegnere ed è vincitrice di una Borsa di Dottorato presso la Scuola di Ingegneria Aerospaziale dell'Università degli Studi di Roma "La Sapienza" conseguendo il titolo di Dottore di Ricerca nel 2011 con la seguente tesi: Studio E Caratterizzazione Del Processo Di Produzione Di Fibre Di Carbonio Pitch-based ad Alto Modulo Per Applicazioni Aerospaziali.

Dal 2008 al 2012 svolge la sua attività di Ricerca come Responsabile Scientifico di Progetto per lo *Studio, Progettazione e Produzione di Fibre di Carbonio da Pitch – primo impianto prototipale in Italia*. Si occupa anche delle attività legate allo studio ed analisi di materiali innovativi per applicazioni spaziali ( outgassing, ossigeno atomico, dilatazione termica in medio alto vuoto etc..)operando presso i laboratori del Dipartimento di Ingegneria Aerospaziale. Nello stesso periodo è capo redattore della *Rivista Italiana Compositi e Nanotecnologie ISSN 1826-4697*.

Dal 2012 al 2014 svolge la sua attività come Ingegnere per i Sistemi da Vuoto presso il Consorzio Laboratorio Nicola Cabibbo per la progettazione preliminare e definitiva del Sistema da Vuoto per la macchina acceleratrice TAU-CHARM.

Dal 2014 ad oggi lavora come staff nel servizio Vuoto della Divisione Acceleratori dei Laboratori Nazionali di Frascati, inizialmente, dopo aver vinto un concorso pubblico per titoli e colloquio, con contratti a tempo determinato e dal 2018 come staff a tempo indeterminato.

La sua attività si è incentrata prevalentemente sulla progettazione, coordinamento e test di componenti sia standard che innovativi in ambito della fisica delle alte particelle sia per quanto riguarda le attività correlate all'applicazione dell'ultra alto vuoto che quelle relative alla diagnostica del fascio di particelle. In particolare è stata responsabile *del coordinamento di progettazione e realizzazione delle stazioni di diagnostica per il progetto ELI-NP-GBS ( Gamma Beam System)* studiando la configurazione più performante per l'acquisizione del fascio di particelle lungo il LINAC; attualmente è responsabile *del coordinamento della progettazione, realizzazione ed integrazione della linea da vuoto e delle camere di iniezione ed interazione dell'esperimento ExIn* che sarà installato sull'acceleratore SPARC presso gli LNF, con relativo studio e valutazione del degassamento specifico degli oggetti costituenti la camera di interazione.

Ha pubblicato diversi articoli su riviste scientifiche ed atti di conferenze.

PERSONAL INFORMATION

**Luigi Pellegrino**

Viale dei Cronisti 23, Monte Porzio Catone  
 +39 0694476161 +39 3477741088 [Luigi.Pellegrino@Inf.infn.it](mailto:Luigi.Pellegrino@Inf.infn.it)

Sex Male | Date of birth 20/10/1963 | Nationality Italian | CF PLLLGU63R20A462J

WORK EXPERIENCE

September 2012 - present

**Head of the Mechanical Engineering Group in the Accelerator Division**

Frascati National Laboratory of the Istituto Nazionale di Fisica Nucleare (INFN - Italian National Institute of Nuclear Physics)  
 Responsible of the group (2 engineers and 8 technicians) in charge of design, installation and alignment of components of particle accelerators.

January 2011- August 2012

**Graduate engineer staff in the Technical Division**

mechanical engineering, computer mechanical simulations.

September 1994 – January 2011  
 (From 1997 as permanent staff).

**Head of the Fluid Systems Group in the Accelerator Division (from April 2009 the Service moved under the Technical Division)**

Responsible of the group (up to 2 engineers and 7 technicians) in charge of design, construction, commissioning and maintenance of water cooling, air conditioning, refrigeration and compressed gas systems of the accelerators and their auxiliary systems.  
 Energy Manager (1995-2010).  
 Expert in procedures on procurement and tendering.  
 Work on simulation and modeling of thermal - mechanical systems and air cooling, specially Data Centers.

September 1992 – August 1994

**Graduate engineer in the Mechanical Engineering Group in the Accelerator Division (fixed-term contract)**

mechanical engineering, computer mechanical simulations.

June 1989 - August 1992

**Professional in a small civil engineering firm**

design of reinforced concrete and steel structures, energy assessment in buildings.  
 Member of Ordine degli Ingegneri della provincia di Roma since 1990.

EDUCATION AND TRAINING

April 1990 - July 1994

**"Dottorato di Ricerca" (Italian Ph.D.), Università La Sapienza di Roma**

level 8

Energetics (engineering of nuclear, conventional and renewable energy sources)

September 1982 – May 1989

**University master degree, Università La Sapienza di Roma**

level 7

Mechanical engineering (five years course)

October 1977 - July 1982

**High school Liceo C. Tacito di Roma**

Maturità classica

PERSONAL SKILLS

Mother tongue(s)

English

French

		Italian			
Listening B2	Reading C1	Spoken interact. C1	Spoken product. C1	Writing C2	
Listening A2	Reading B2	Spoken interact. A2	Spoken product. A2	Writing B1	

Computer skills


Good command of Microsoft Office, project management tools (MS Project, Smartsheet), CAE and CAD programs (Ansys, Autodesk Inventor and Autocad), air conditioning design program MC4, air flow simulation program FLOVENT, alignment and survey programs (Axyz, Spatial Analyzer).

Publications

List of publications, presentations, conferences, seminars and projects available on demand.

## PERSONAL INFORMATION

## Paolo Rossi

 Via Enrico Fermi, 45 - 00044 Frascati, Italy (office)

 +39 0694005338  paolo.rossi@enea.it

Sex Male | Date of birth 05/08/1968 | Nationality Italian

## WORK EXPERIENCE

01/12/2003–Present

## Researcher

Technical Responsible of R&D, procurement and service contracts

Coordinator of the, metrology lab remote handling lab and mechanical workshop

ENEA, National Agency for New Technologies, Energy and Sustainable Economic Development, C.R. Frascati, Via E. Fermi 45, 00044 Frascati (Italy)

**Technical Responsible** of the service contract with Fusion for Energy (F4E for "Testing of 1/5 scale precompression ring mock-ups")**(2017-2019)**

**Director of execution of the contract** between ENEA and ASG Superconductors for the supply of 10 TF coils for the JT-60SA tokamak **(2017-2018)** in the frame of the Broader Approach Program

**Director of execution of the contract (2012-2017)** and then **RUP – Unique responsible of the procurement (2017-2018)** of the contract between ENEA and Walter Tosto in Chieti for the supply of 20 TF coil casing sets for the JT-60SA tokamak in the frame of the Broader Approach Program

**Contributor** of the ITER service contract IO/CT/18/4300001705 for the "Validation of a representative blanket manifold pipe bundle" **(2018-present)**, of the ITER service contract IO/CT/16/4300001305 "Blanket Manifold joint validation" **(2016-2017)** and of the service contract with Ansaldo Nucleare for the fabrication of the plasma facing units (PFU) for ITER divertor inner vertical target **(2012-2018)**

**Director of execution of the contract** between ENEA and RTM Breda in for the supply of "Metallographic analysis and mechanical testing at room and cryogenic temperature" in the frame of the Broader Approach Program **(2014-2017)**

**Technical Responsible** of the service contract with EADS Casa Espacio for "Scaled pre-compression rings testing" in the framework of F4E procurement OPE-345 **(2013-2014)**

**Responsible** of the mechanical design and testing activities related to the grant F4E-GRT-282 "In-Vessel Viewing System (IVVS) probe design finalization including laboratory tests". **(2012-2014)** and related to the grant F4E-2008-GRT-015 " Development of an IVVS prototype" **(2009-2011)**

**Technical Responsible** of the contract ITER 09-4300000015 "Pre-compression rings final design qualification". Manufacture and UTS tests of 5 subscale pre-compression ring mock-ups. Manufacture and stress relaxation tests of 2 subscale pre-compression ring mock-ups **(2009-2011)**

**Technical Responsible** of the contract EFDA 07-1702/1588 "ITER pre-Compression Rings Characterization". Development of the composite materials of the pre-compression system for the ITER TF coils. UTS and stress relaxation testing of reduced scale ring mock-ups. Sample manufacturing and mechanical characterization of S2 fibre glass-epoxy composite. Survey of the NDT methods to be applied to the final pre-compression rings and proof testing requirements" **(2008-2009)**

**Technical Responsible** of the contract EFDA 07-1702/1589 "TF Structure Closure Welding Development - Laser Welding Qualification". Production of samples and qualification of the welding procedures with fibre lasers welding method **(2008-2009)**

**Responsible** of the mechanical design and testing activities of the EFDA Contract 04-1168 "Design and testing of reduced-scale mock-ups for the ITER magnet pre-compression rings". Design and manufacture of hydraulic testing machine (loading capability: 1000 tons) **(2005-2007)**

**Responsible** of procurement contracts with the companies: Oleodinamica Service **(2005-2006 and 2013)**, SRS Engineering Design **(2005-2006)**, Cecom **(2006)**, CSM **(2008-2009)**, Tosti **(2008-2009)**, ASG Superconductors **(2008-2009)**, CND Service **(2008-2009-2010)**

Metrology contributor of the SuperAgile detectors alignment **(2006-2007)**

Contributor of the of the mechanical actuating system design of ITER-like ICRH antenna for JET. EFDA JET Work programme 2004. Three secondment contracts at JET Culham site **(2004 –2005)**

Business or sector Public Research in Energy and Nuclear Fusion

01/03/2000–30/11/2003

### Researcher

ENEA, C.R. Brasimone, 40032 Camugnano-Bologna (Italy)

Mechanical characterization of elastomeric liners for FIAT AVIO Electrical insulation **(2003)**

Cryogenic friction testing of APS coatings for CEA **(2002)**

Electrical insulation development for blanket application, ITER task T422. Design and manufacture of relevant testing assemblies. Friction, mechanical and thermal testing campaign **(2001)**

Friction testing of electrical insulation materials for ITER magnet applications in cryogenic and vacuum conditions ITER task M49 and ITER task T404 **(2000-2002)**

Design and test of insulated cylindrical and conical shear keys for ITER magnet system, ITER task T406. Design and manufacturing of a hydraulic facility for shear key cryogenic tests **(2000-2002)**

Responsible of procurement contracts with LT Calcoli **(2001-2002)** and Alca Technology **(2003)**

**Business or sector** Public Research in Energy and Nuclear Fusion

09/1997–12/1999

### Project manager

A.D.A. - Advanced Development Attractions, L'Aquila, Italy

**Business or sector** Design and manufacturing of special effects and attractions for amusement parks

## EDUCATION AND TRAINING

---

1997

### Post-University course in Industrial Management

University La Sapienza, Rome, Italy

1996

### University Master Degree in Mechanical Engineering, 110/110

University La Sapienza, Rome (Italy)

## PERSONAL SKILLS

---

Mother tongue

Italian

English

Listening B2

Reading C1

Spoken interaction B2

Spoken production B2

Writing C1

**Communication/organisational/  
managerial skills**

Good communication and managerial skills gained in managing projects and contracts for EFDA, F4E, ITER, JT-60SA

**Digital skills**

Good knowledge of Microsoft Office suite and Microsoft Project, LabVIEW, alignment and survey programs (Axyz, Spatial Analyzer) and basic knowledge of CATIA and ANSYS Workbench

## ADDITIONAL INFORMATION

---

**Certifications**

Safety officer (preposto alla sicurezza) since 2010

RUP (Responsabile unico di Procedimento) since 2011

TSL qualification (Tecnico Sicurezza Laser), 2015

Brevetto ENEA: Sistema ottico di scansione compatto per sensori laser radar in ambienti ostili. Data di deposito: 04/12/2014 brev. D.N. RM2014A000702

**Publications**

List of publications, presentations, conferences, seminars and technical reports available on demand

Roma 25/03/2020

