

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**



**PERSONAL INFORMATION**

Name **ZANGANI DONATO**

**WORK EXPERIENCE**

- Dates (from – to) From 01/01/2019 up to now
- Name and address of employer RINA Consulting S.p.A.
- Type of business or sector Engineering Consulting
- Occupation or position held Corporate R&D Strategy Manager
- Main activities and responsibilities Definition of R&D Strategy of the company of RINA Group
  
- Dates (from – to) From 01/07/2017 to 31/12/2019
- Name and address of employer RINA Consulting S.p.A. (formerly D'Appolonia S.p.A.)
- Type of business or sector Engineering Consulting
- Occupation or position held R&D Manager
- Main activities and responsibilities Coordination of Research and Development activities of RINA Consulting S.p.A.
  
- Dates (from – to) From 01/01/2017 to 30/06/2017
- Name and address of employer D'Appolonia S.p.A.
- Type of business or sector Engineering Consulting
- Occupation or position held R&D Manager
- Main activities and responsibilities Coordination of Research and Development activities of D'Appolonia
  
- Dates (from – to) From 01/01/2013 to 31/12/2016
- Name and address of employer D'Appolonia S.p.A.
- Type of business or sector Engineering Consulting
- Occupation or position held Engineering Manager
- Main activities and responsibilities Technical Manager of the Industry and Power Generation Division
  
- Dates (from – to) From 01/01/2007 to 01/01/2013
- Name and address of employer D'Appolonia S.p.A.
- Type of business or sector Engineering Consulting
- Occupation or position held Engineering Manager
- Main activities and responsibilities Division Manager of the Industrial Innovation Division
  
- Dates (from – to) From 01/01/2000 to 01/01/2007
- Name and address of employer D'Appolonia S.p.A.
- Type of business or sector Engineering Consulting
- Occupation or position held Senior Project Engineer
- Main activities and responsibilities Responsible for the Research activities within the Industry Division of the Company
  
- Dates (from – to) From 01/01/1995 to 01/01/2000
- Name and address of employer D'Appolonia S.p.A.
- Type of business or sector Engineering Consulting
- Occupation or position held Project Engineer
- Main activities and responsibilities Responsible for research projects focused on new materials and new product development

## EDUCATION AND TRAINING

- Dates (from – to) From 01/012004 to 31/12/2008
- Name and type of organisation providing education and training University of Newcastle (UK), School of Mechanical and Systems Engineering, Faculty of Science, Agriculture and Engineering
- Principal subjects/occupational skills covered Higher Education
- Title of qualification awarded PhD in Mechanical Engineering.
- Level in national classification (if appropriate)

## EDUCATION AND TRAINING

- Dates (from – to) From 01/09/1985 to 30/08/1992
- Name and type of organisation providing education and training University of Genova
- Principal subjects/occupational skills covered Higher Education
- Title of qualification awarded Laurea in Civil Engineering
- Level in national classification (if appropriate)

## MOTHER TONGUE

ITALIAN

## OTHER LANGUAGES

- Reading skills EXCELLENT
- Writing skills EXCELLENT
- Verbal skills EXCELLENT

## SOCIAL SKILLS AND COMPETENCES

Very good attitude towards a collaborative working environment

## ORGANISATIONAL SKILLS AND COMPETENCES

Engineering Consultancy  
Management and coordination of large collaborative R&I projects  
Technology Transfer and Innovation Financing

## TECHNICAL SKILLS AND COMPETENCES *With computers, specific kinds of equipment, machinery, etc.*

Nature Based Solutions  
Resilience of Critical Infrastructures  
Energy Efficiency in Buildings  
Nanotechnologies and nanomaterials  
Structural Health Monitoring  
Technical textiles  
Fiber Reinforced Plastic Composites  
Explicit & Implicit FEM

## ARTISTIC SKILLS AND COMPETENCES *Music, writing, design, etc.*

1992 French Horn Diploma at Conservatory of Music N. Paganini of Genoa

## REPRESENTATIVE PROJECTS

POLYTECT (2006-2010) "Polyfunctional Technical Textiles against Natural Hazards"  
Project Reference: 26789. Running from 2006 to 2010. Project cost: 10.15 M€. Project Funding: 6.6 M€. 27 Project Partners. The project, coordinated by Donato Zangani developed new multifunctional textiles embedding electronics for the construction sector. POLYTECT was the JEC Award 2010 in the category Building and Construction. Many project results are now being commercialised by the industrial partners.

FLY-BAG (2006-2009) "Blastworthy textile-based luggage containers for aviation safety"  
Reference: 213577. Running from 2008 to 2011. Project cost: 3.14 M€. Project Funding: 2.18 M€. 10 project partners. Donato Zangani was in charge of the overall project coordination. FLY-BAG successfully produced a new concept of blast resistant luggage container for airplanes, capable of mitigating the effects of onboard explosions. Certification of the FLY-BAG container is under way and contacts have been established with major companies (Aifrance, Lufthansa Cargo) for the commercialisation of the system.

REFRESH "Green technology for fresh water sea-transportation based on a flexible containers system" Within the REFRESH project Donato Zangani coordinated the design activities leading to the development of an innovative system for the transportation of large quantities of freshwater on the sea to coastal communities. The system is based on a modular textile structure with modules connected with extra strong watertight zips.

MULTITEXCO (2013-2016) "High Performance Smart Multifunctional Technical Textiles for the Construction Sector". Responsible for the technical development of the activities to scientifically and technologically characterise the latest achievements in technical textile sector for the development of guidelines and pre-normative research enabling future standards at EU level

SUSTRAIL (2011-2015) "The sustainable freight railway: Designing the freight vehicle – track system for higher delivered tonnage with improved availability at reduced cost"

SPORTE2 (2010-2014) Energy Efficiency for European Sport Facilities

OPERANDUM (2018-ongoing) "OPEn-air laboRAtoRies for Nature baseD solUtions to Manage hydro-meteo risks".  
Development of an innovative modular geotube for shoreline stabilization and coastal protection with Nature Based Solutions (NBS)

## AWARDS & SIGNIFICANT ACHIEVEMENTS

2008 **Safety Award in Mechanical Engineering** from the Institution of mechanical Engineers in UK.

2009 IMechE Alfred Rosling Bennett Premium/Charles S Lake Award for a paper entitled "Investigation of the Weld Unzipping Failure Mode during Collisions of Welded Aluminium Rail Vehicles".

2010 The POLYTECT project "Polyfunctional Technical Textiles against natural Hazards" coordinated by Dr. Zangani was awarded with the highly prized **JEC Awards 2010** for the category Building & Construction for the Composite Seismic Wallpaper concept developed within the project.

2011 The collaborative project FLY-BAG, "Blastworthy textile-based luggage containers for aviation safety", coordinated by Donato Zangani won the **TechTextil Innovation Prize**, in the category "Safety and Protection" for our innovative Explosion Resistant Textile Luggage Container for Aircraft Cargo Holds.

2011 FLY-BAG, coordinated by Donato Zangani, was granted the **MATERIALICA Design + Technology Award** in the category "Product"

2013 Winner of the **Techtextil Innovation Award** for the EU REFRESH project where we have successfully developed a textile-based water bag, which makes it possible to transport large quantities of fresh water by sea.

2016 At the Transport Research Arena (TRA) Conference in Warsaw Dr. Zangani received the prize in the category "Railway" for work performed within the EU Research project ALJOIN "Crashworthiness of joints in aluminium rail vehicles". The Transport Research Arena (TRA) Conference is the most important transport research event in Europe, gathering every 2 years the key stakeholders: researchers, experts, operators, industry and policy-makers.

2016 TRA VISIONS **EU Champions of Transport Research Competition** award. The competition recognizes and celebrates leading researchers for their contribution to surface transport EU-funded projects. The competition acts as a showcase for the very best EU-funded research and encourages the identification of current and future leaders in the field.

2021 **Best Innovation Award** obtained for the project EVERYWHERE by the Fuel Cells and Hydrogen Joint Undertaking

## PATENTS

Entirely textile-based, lightweight, and blast resistant cargo container system and manufacturing method thereof  
Entirely textile-based, lightweight, and blast resistant cargo container system and manufacturing method thereof  
EU EP 2492217 B1 · Issued Feb 22, 2011

Dispositivo di attenuazione di uno scoppio e relativo metodo di fabbricazione  
Dispositivo di attenuazione di uno scoppio e relativo metodo di fabbricazione  
IT MI2014A001695 · Filed Sep 29, 2014

Blast Mitigation Device and Method  
EU PCT/EP2015/001914 · Filed Sep 28, 2015

Geotube for coastal protection barrier and coastal protection barrier comprising the geotube  
Publication Number: WO/2020/229253. Publication Date: 19.11.2020