

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name	DEFINA FILIPPO
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Nationality	Italian
Date of birth	29/03/1983, Naples

WORKING EXPERIENCE

- Dates (from – to)
 - Sectors
- Employment main functions and responsibilities

From January 2024 – Today

3DnA – Consorzio “il Sole” Viale Impero - 80038 Pomigliano d’Arco (NA)

Business Development Manager – R&D Manager

- Market research and analysis
- Development of strategies
- Customer acquisition
- Relationship management
- Sales and marketing support
- Same Customers: Alstom; MBDA; Leonardo; Bertone

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From January 2023 – Today

3DnA – Consorzio “il Sole” Viale Impero - 80038 Pomigliano d’Arco (NA)

Technical & Sales Manager – R&D Manager

- Commercial relations with customers for all Additive manufacturing technologies
- Management of virtual verification activities:
 - Virtual optimization for additive manufacturing
 - Materials Analysis
 - Simulation of metal 3D printing processes
 - Patent activities
- Research and development activities:
 - Development of innovative research projects
 - Drafting of documentation for research proposals
 - Activity management and interface with project partners
 - Development of new technological additive printing solutions

3DnA Scientific leader in the following research projects:

TIAMA – (Integrated technology of Additive Manufacturing and Advanced Fiber Placement) - MIMIT (Ministero delle Imprese e del Made in Italy) - Programma Nazionale Ricerca, Innovazione e Competitività 2021-27 (Strategic Technologies for Europe Platform - STEP).

SMAPS (Smart Mobility @dvanced Production System).

Innovative mobility platform (passenger transport vehicle sector intended for the micro-mobility of future smart cities) created with additive manufacturing and autonomous driving technologies

MIMIT (Ministero delle Imprese e del Made in Italy) - Accordi per L'innovazione - primo sportello

CARMA: Capabilities per l'Aerospazio con Ricerca e Manifattura Additiva.

Characterization of the additive manufacturing process in the production of heat exchangers and air intakes for ultralight aircraft using metal "lattice" geometries and polymeric air intakes.

POR FESR Campania 2021-2027

IDRHeS - Italian Design for Sustainable Reticular Heat Sinks

Development of an innovative methodology for the design of elementary cells with a "lattice" structure for heat exchange to be printed in AM (Additive Manufacturing). This tool consists in the use of Artificial Intelligence (AI) coupled with Computational Fluid Dynamics (CFD) and experimental measurements obtained on specimens with geometries deriving from DfAM (Design for Additive Manufacturing) in order to design cells with greater energy efficiency

Bando 01/2024 –(MICS) Made in Italy Circolare e Sostenibile – IMPRESE

IMPROVE - "decision support system for production management based on prediction of high impact variables"

Decision support software tool for improving production management in the field of additive manufacturing through the use of AI (machine learning) technologies by monitoring the status of the main operating variables of the AM production process.

MIMIT (Ministero delle Imprese e del Made in Italy) - Accordi per L'innovazione - secondo sportello

SAPPiAM - Strumenti Avanzati di Progettazione Personalizzata per Additive Manufacturing

Project that investigated and selected the best methodologies available on the market to design in Additive Manufacturing, AM, with optimization of structural mechanical components and aesthetic components in the automotive sector for the grand tourer segment.

MIMIT (Ministero delle Imprese e del Made in Italy) - Sportello Fabbrica Intelligente DM

Patent submitted: "Additive manufacturing process for the production of semi-crystalline polymer foams without the use of additives"; Inventors: Pier Luca Maffettone (UniNa), Daniele Tammaro (UniNa), Lorenzo Lombardi (UniNa), Claudio Esposito (UniNa), Alessandro Manzo (3DnA), **Filippo Defina**, (3DnA), Francesco M. Sacerdoti, Massimiliano Di Martino (3DnA). N°102024000022383.

Publication:

NAPOLITANO Francesco, CARDENIO Ivano, **DEFINA Filippo**, MANCO Emanuele, MANZO Alessandro, PAPA Ilaria and RUSSO Pietro, Effect of different auxetic cell design on the compression behavior of FDM structures, Materials Research Proceedings, 41, 2607-2616, (2024)

From 2022 Member of the Patent and Trademark Commission of the Order of Engineers of Naples

From October 2010 – To December 2022

BLUE Engineering – via ex Aeroporto, Pomigliano D'Arco (NA)

Aeronautical, Automotive and Railway

Structural Virtual Validation Engineer and Project Engineer.

- Dates (from – to)
 - Sector
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main functions and responsibilities

Marketing activities, drafting of technical - economic offers, negotiations with Suppliers.

Co-supervisor of several degree theses (Industrial Engineering Department of Naples - Federico II).

R&D Member of the BLUE Research and Development Department (specific technical training and participation in various research projects and research proposals)

Some activities performed in BLUE Engineering:

Automotive, Industrial and R&D projects:

- NVH Structural Virtual Validation Engineer for Bugatti Tourbillon Project FE NVH Model, Modal Analysis and Static Analysis on Composite Material Components (**Industrial**)
- NVH Structural Virtual Validation Engineer for SEAT Project FE NVH Model, Modal Analysis and Acoustic Analysis (**Industrial**)
- Engaged in the Electric Car Project with the role of Structural Verification Team Leader (Durability, strength, misuse and NVH Virtual validation coordinator) (**R&D**)
- Engaged in the Automotive Platform (*Trolley Bus Project*) with the role of Structural Verification Team Leader and Virtual Validation Responsible. (**R&D**)
- Application Engineer of NVH for design of Russian project car (step1 and step2) for the Central Scientific Research Automobile and Automotive Engines Institute (NAMI). (**Industrial**)
 - Virtual Validation Engineer: Roll-over ECE 66 virtual certification for the IVECO Daily 4100 L. (**Industrial**)
- ELECTRIC MICROCAR Project: Engaged in the Platform with the role of Project Manager. (Contact with suppliers, management of resources and timing for the realization of the prototype) (**R&D**)
 - Chevrolet NIVA Next Generation Project: Engaged in the Automotive Platform with the role of coordinator of Static calculations and NVH and testing assistance. (**Industrial**)

Railway, Industrial and R&D projects:

- Engaged in the Innovative Railway Bogie (category B-II) – “ARCO Bogie” with the role of Structural Verification Team Leader and Project Engineer. Virtual validation of composite material (carbon fiber) structure and aluminum structures. (**Industrial and R&D**)
- Engaged in the Innovative Railway Bogie (category B-IV) with the role of Structural Verification Team Leader. Virtual validation of composite material structure, Suppliers management for the composite material. Drafting of Testing specifications and Testing assistance. Numerical-experimental correlation (carbon fiber material components) (**R&D**)
- Engaged in the Additive Manufacturing Project and in the Composite Railway Project with the role of Structural Verification Team Leader – Railway Bogie for high speed (category B-I). Structural Verification Team Leader and Virtual Validation Responsible; Topological optimization for additive manufacturing components and print simulation. Suppliers management. Drafting of testing specifications and testing assistance. (**R&D**)
- Engaged in the Railway Platform with the role of Application Engineer in structural vibration and interiors validation – DMU rail project for Company CRRC Tangshan. (**Industrial**)
- Engaged in the Railway Platform (revamping of train) with the role of Project

EDUCATION AND TRAINING

Engineer – Circumvesuviana Project. Virtual validation Engineer of the car body and preparation of the reports to be subjected to authorization by the USTIF.
(Industrial)

Aeronautical, Industrial and R&D projects:

- Engaged in 3D-printing Additive Manufacturing Aircraft Seat main structure components with the role of Structural Verification Engineer. **(R&D)**

- Engaged in the Aeronautical Project (Fairing Wing – Fuselage in composite material) with the role of Virtual validation Engineer of composite structures. Suppliers management for the composite components design. **(R&D)**

- GREAT 2020 Project: Static and Dynamic Analysis, Tip Shroud/Interlocking Design, Rotor Dynamic Analysis for the engine test benches. **(R&D)**

- Structural Virtual Validation Engineer

Activities performed: modal analysis, clamp block analysis, bracket analysis, bearing analysis, bolt analysis and OPF analysis, hand calculations of the following systems of hydraulic lines and of pressurization of the Boeing 787 project. **(Industrial)**

- **From June 2025** Admitted to the Register of Experts in Technological Innovation established at the Ministry of Enterprises and Made in Italy with Directorial Decree of 31 August 2016
- **From February 2017 to March 2017.**
Project Management course for the ISIPM credential – basic (Order of Engineers of Naples)
- **From March 2011.** Admitted to the Order of Engineers of Naples (number 20701)
- **From 16 December 2006 to 17 May 2010.**
Degree in Aerospace and Astronautics Engineering from the Faculty of Engineering of the Federico II of Naples University, with full marks 110/110 cum laude.
Thesis: Measurements of noise in the fuselage of a General Aircraft Aviation.
Supervisor: Prof. Ing. Francesco Marulo.
- **From December 2009 to February 2010.**
Training of 150 hours at the Laboratory of Structural Analysis and vibro-acoustic Department of Aerospace Engineering of the Federico II of Naples University.
Subject: Acoustic tests on the Piaggio P180 Avanti fuselage, analysis and simulation with LMS Test.lab.
- **From September 2002 to 15 December 2006.**
degree in Aerospace Engineering of the Federico II of Naples University, with full marks 110/110 cum laude.
Thesis: Study and optimization of a rib composite (carbon fiber reinforced polymer) for the wing of a Business Jet.
Supervisor: Prof. Leonardo Lecce.
- **From January to April 2006.**
Training of 150 hours at the Alenia Aeronautics in Pomigliano D'Arco
Subject: ribs composite analysis (carbon fiber reinforced polymer) for the wing of a business jet with the use of software (Catia V5, MSC Nastran, MSC Patran).
- **From September 1997 to June 2002.**
General certificate of education as building Surveyor (address of Construction and Environment), at the ITCG “Ferdinando Petruccelli della Gattina” school in Moliterno (PZ), with full marks 100/100.

**PERSONAL SKILLS
AND COMPETENCIES**

- Ability to work on multiple topics at the same time
- Problem Solving
- Ability to coordination and accountability.
- Excellent customer relationship skills (especially in economic negotiations context)
- Ability to manage complex and multidisciplinary projects

Mother tongue(s)

Italian

Other language(s)

English

French

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B1	B1	B1	B1	B1
A2	A2	A2	A2	A2
B1=Intermediate Level; A2=Beginner Level				

English certification (B1 level): British Institute in Pomigliano D'Arco (NA)

**SOCIAL SKILLS
AND COMPETENCIES**

During a lot of working experiences I have developed excellent communication skills within the working groups and with the several suppliers.

- Co-supervisor degree thesis in Mechanical and Aerospace engineering.
- Training for new employees.

**ORGANISATIONAL SKILLS
AND COMPETENCIES**

High communication skills with employees and customers.

Team leader and coordinator in the Aerospace, Railway, Automotive projects.

The high learning ability and dedication to my work allow me to learn quickly software of structural virtual validation.

Manager of projects in the fields of Aerospace, Railway, Automotive.

**TECHNICAL SKILLS
AND COMPETENCIES**

Excellent multimedia capabilities. Softwares used:

OFFICE: Excellent

CATIA V 5: Basic

Autocad LT : Good

MSC Nastran: Excellent

MSC Patran: Good

MSC Simufact Additive: Good

HyperMesh: Excellent

HyperView: Excellent

SolidThinking Evolve: Good

Ansa: Excellent

MetaPost: Excellent

LsDyna: Basic

Abaqus (implicit ed explicit) : Excellent

Optistruct: Good

LMS Virtual.Lab: Basic

Femap: Basic

Ansys: Basic

Excel VBA: Basic

VA One: Basic

MSC Actran: Basic

DRIVING LICENCE(S)

Italian driving license B

I authorize the use of my personal data under D.lgs. 196 del 30 June 2003.

Naples, li 21/05/2026

