

PERSONAL INFORMATION

Federico Fiume



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Architect, designer, and expert in energy redevelopment

Sex Male | Date of birth 04/04/1987 | Nationality Italian

WORK EXPERIENCE

January 2021 – Actual

Architect and founder of Resiliens Arch Studio

Activities

Concept and creation of architectural projects, specialized in ecological, economic, and social sustainability. Management of relations with clients, construction companies, suppliers and Public Administrations. The Studio is committed to multiple fields:

- energy efficiency and redevelopment, designing ZEB and NZEB buildings
- urban regeneration and social innovation, participating in development and social inclusion plans promoted by administrations and privates;
- digitalization of building heritage, exploiting the most innovative acquisition technologies (UAV photogrammetry, laser scanners), BIM digitalization and integrated design;
- practices related to tax incentives for energy efficiency.

Main projects:

- Technical economical feasibility study and executive design for the energy efficiency of public housing ATER in Civitavecchia, Italy;
- Demolition rebuilding of ruined buildings in Umbria, Italy (in progress);
- Support for the architectural design for the redevelopment and social revitalisation of public spaces in the municipality of Villa Sant'Angelo, Province of L'Aquila, Italy;
- Consultancy for the architectural design for the feasibility project for extraordinary maintenance works at railway station in Siracusa, Italy;
- laser scanner, photogrammetry and celerimetric survey of the railway station of Roma Termini, Cogoletto, Alassio and Genoa Pegli.

Business or sector Architecture

January 2015 – October 2017

Freelance Architect

Company

Federico Fiume Architect

Activities

Concept and creation of architectural projects. Management of relations with clients, construction companies, suppliers and public administrations.

- Design projects and technical management of 5 private apartments and 1 condominium aiming to renovate buildings both internally and externally and to re-qualificate the buildings energetically.
- Feasibility study for the realization of a private villa committed to zero-impact on the environment and PRINT adoption.
- BIM digitalization projects of some buildings, on behalf of Baglioni S.r.l.
- Design of a co-working space in a warehouse in Via G. Bresadola, Rome.
- Design of temporary bar in a historical location in Rome.

Business or sector Architecture

March 2016 – June 2016

Consultant

Company

Dead Poets Society S.r.l.s. (Ex Dogana, Rome, Italy)

Activities Concept and creation of architectural interventions and design renovations (both internal and external) for huge events organized at the Ex Dogana location of Rome. Management of the relations with Institutions, corporates, suppliers, technicians and professionals.

Business or sector Architecture

March 2015 - June 2015

Architect

Company Studio Ninfea S.a.s. (Rome, Italy)

Activities Design of the "Mensa Sociale e della Legalità" (Canteen of the Social Issues and Legality) in the Corviale area, Rome. The project was entirely developed using the BIM software.

- Development of the architectural project; management and team coordination.
- Project presentation at Expo 2015 Milan - Coca Cola Pavilion.
- Concept and management of energetic and environmental strategies.
- In-depth research of innovative building and environmental technics.

Business or sector Architecture

March 2012 - July 2015

Teaching Assistant

Company Laboratory "Architectural Construction" held by Professor Paola Marrone, Università degli Studi Roma Tre, Rome.

Activities Teaching support, review of the students' projects focusing on the technological and environmental aspects. In charge of the sustainability module of the course.

Business or sector Architecture

January 2014 - November 2014

Consultant

Company Candidate Mayor to the municipality of Albano Laziale, Rome

Activities Consultancy in the following activities:

- Editing of studies about energetic saving of the heritage developed in 4 phases: metric surveys and BIM digitalization of the public buildings; consumption analysis through simulation; monitoring and coordination of the phases; variations through BIM system.
- Ideation of actions with the aim of create awareness among citizens about how to decrease energetic consumptions in private buildings, through re-qualification and efficiency
- Editing of master plans for the re-cycle and waste disposal system aiming to gradually transform waste from duty to resource.
- Creation of public interventions based on European best-practices: territorial energetic plans, re-cycle and waste disposal plans, management of green transportation.
- Development of a preliminary analysis on a partecipative and shared planning of energy, means of transportation and waste, in order to create an autonomous district.
- Support to communication.

Business or sector Architecture

September 2013 - December 2014

Architect

Company Studio Ninfea S.a.s. (Rome, Italy)

- Activities** Design of the preliminary phases of the following projects:
- Energetic, social and architectural re-qualification project of the Corviale residential area in Rome. Presentation of the project at the presence of the Mayor and the Assessor to the Public Works and Peripheries.
 - Project of a bike and pedestrian path to connect the entire city of Rome.
 - Project of the poly functional center in Capannelle, Rome, including the directional center of Enter Parco Appia Antica, offices, archeological museum Appia Antica, touristic center, nursery, rental office of electric means of transportation to be uses within the park.

Business or sector Architecture

September 2009 - December 2012

Intern

Company

- Studio AEDAS, London UK (October 2012 - December 2012)
- Studio Archt. Luciano Cittadini e Associati, Rome (September 2012 - October 2012)
- Studio Carlo Berarducci Architecture, Rome (September 2010 - November 2011)
- Zero Lucenta S.r.l., Rome (September 2010 - November 2011)
- Studio Archt. Maria Cristina Pedri, Rome (September 2009 - February 2010)

Activities

Concept, design and realization of architectural projects (also working in team) using graphic and building softwares, especially BIM. In charge of building renovations and energetic re-qualifications works.

Business or sector Architecture

EDUCATION AND TRAINING

April 2022 – April 2023

Università degli Studi Roma Tre, Rome, Italy

Research Grant

Research theme: "Il contributo degli spazi di prossimità alla mitigazione degli effetti dei cambiamenti climatici: studio di un modello di valutazione multicriteriale" PRIN_2017_TECH-START, Professor Paola Marrone

October 2017 – January 2022

Università di Trento, Trento, Italy

PhD at Laboratory of Building Design, DICAM (XXXIII Cycle), University of Trento

Research theme "Modular Emergency Architecture", Professor Rossano Albatici.

December 2015 - Present

Beta Formazione

- Energy Management Course
- BIM in buildings design
- Domotica

Online course with final exam and certification.

September 2015 - Present

Associazione Culturale Arslineandi

Advanced Course on Organic Architecture

Course held in Rovereto, Trento, Italy, about advanced principles of the architectural model of Anthroposophy.

October 2014 - June 2015

Associazione Culturale Arslineandi

Introduction Course on Organic Architecture

Course held in Rovereto, Trento, Italy, about advanced principles of the architectural model of Anthroposophy.

February 2015 - May 2015

3D Digital LAB

Advanced Autodesk Revit Course

Online advanced course on the BIM Revit Software.

January 2015

Ordine degli Architetti Pianificatori Paesaggisti e Conservatori di Roma e Provincia

Registration at Ordine degli Architetti Pianificatori Paesaggisti e Conservatori di Roma e Provincia, sezione A

March 2010 - May 2013

Università degli Studi Roma Tre, Rome, Italy

Master of Sciences Degree in Architectural Design

Master degree: 107/110.

Master thesis "Towards a residential sustainable architecture", Professor Paola Marrone.

October 2012 - December 2012

The Barlett School, University College of London

Master scholarship in London, UK.

Courses: Natural and Mechanical Ventilation of Buildings, Low Energy Equipment for Mechanical Ventilation.

September 2006 - March 2010

Università degli Studi Roma Tre, Rome, Italy

Degree in "Sciences of Architecture".

Bachelor of Sciences Degree. Degree grade: 105/110.

Bachelor Portfolio "Places of Architecture", Professor Giovanna Spadafora.

September 2001 - June 2006

Liceo Classico Torquato Tasso, Rome, Italy

High School Diploma. Degree: 81/100.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B1	B1
French	B1	B1	B1	B1	A2

Communication skills

- good communication skills with suppliers, clients and Institutions gained through my experiences as consultant and freelance architect.

Organisational / managerial skills

- leadership gained through my experiences as consultant and freelance architect as responsible for a group of technicians and professionals;
- planning (organization of huge events).

Job-related skills

- good command of control processes (responsible for quality location of huge events);
- flexibility to deal with different clients, e.g. Institutions, Public Administrations, privates, corporates and with professionals and suppliers;
- RSPP licence.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient	Proficient	Proficient	Proficient	Proficient

My software skills:

- good command of operating systems: Windows and OS X,
- good command of softwares: MS Office, Adobe Photoshop, Adobe InDesign, Adobe Illustrator, Autodesk AutoCAD, Autodesk Revit, Autodesk Ecotect, Rhinoceros, Grasshopper, TAS, Pov-Ray, SAP2000, SketchUp, ACCA Termus, ACCA Primus, Q-GIS.

Other skills

- hand-drawing;
- music reading and composing;
- event planning;
- jujitsu and karate discipline and training licence.

Driving licence

Italian driving licence category B.

ADDITIONAL INFORMATION

Publications
 Presentations
 Projects
 Conferences
 Seminars
 Honours and awards
 Memberships
 References
 Citations
 Courses
 Certifications

In press | November - December 2022 | 13th Inu International study day – Beyond the future: emergencies, risks, challenges, transitions, and opportunities. Paper by Paola Marrone, Ilaria Montella, Federico Fiume, Roberto D'Autilia "Città e Comunità energetiche rinnovabili: gli spazi di prossimità a supporto dei sistemi energetici decentrati". The paper will be published in the proceedings (ISSN n. 0392-5005).

In press | Paper by Paola Marrone, Ilaria Montella e Federico Fiume "Tecnologie e spazi di prossimità: strumenti per scelte consapevoli nella transizione ecologica", in *TECHNE*, Journal of Technology for Architecture and Environment.

March 2023 | Journal Paper by Paola Marrone, Federico Fiume, Antonino Laudani, Ilaria Montella, Martina Palermo and Francesco Riganti Fulginei "Distributed Energy Systems: Constraints and Opportunities in Urban Environments" in *Energies* 2023, 16, 2718. (<https://doi.org/10.3390/en16062718>)

October 2019 | Congress "43rd IAHS World Congress on Housing 2019 - Housing in third millennium between tradition and innovation" in Cochabamba, Bolivia. Submission of paper by Federico Fiume, Nicola Callegaro and Rossano Albatici "Proposal of a matrix for pre-design definition of different solutions in an emergency modular architecture system".

April 2018 | Congress "42nd IAHS – The housing for dignity of mankind" in Naples, Italy. Presentation of paper by Federico Fiume and Prof. Albatici Rossano "EMERGENCY ARCHITECTURE FOR SOCIAL AND ECONOMIC DEVELOPMENT: A STATE OF THE ART". The paper has been published in the proceedings (ISBN: 978-88-9326-210-1).

July 2017 | Composition, in collaboration with the musician Lorenzo Fiume, of the soundtrack for the dance show "In - Habit", in occasion of the Cantieri dell'Immaginario - Associazione Aquilana Concerti B. Baratteli, L'Aquila, Italy. The show is in tournée in Italy.

February 2017 | Convention "3rd Energy for Sustainability International Conference - Designing Cities & Communities for the Future" in Funchal, Madeira, Portugal. Presentation of my thesis paper "Toward a sustainable housing: how the components of a building can impact on its ability to keep internal temperature constant". The paper has been published in the proceedings (ISBN: 978-989-98949-8-3).

November 2016 | Conference "TAS User Day" held at Mambo, Bologna, Italy and organized by Ecodesign S.r.l and EDSL.

October 2016 - Present | Volunteer trainer of course of Ju Jitsu for the children, held by Church of St. Domenico Guzman, Rome.

October 2015 | Conference "Wellness and comfort in the buildings we live" held at SAIE, Bologna, Italy and organized by Il Sole 24 Ore.

September 2015 | Conference "Urban re-generation and sustainable building", held at Ara Pacis, Rome, Italy and organized by Professor Paola Marrone as representative of Università Roma Tre, Rome, Italy.

June 2015 | Presentation of the project "Canteen of Social Issues and Legality" at the Expo 2015 Milano - Coca Cola Pavillion.

July 2014 | Composition, in collaboration with the musician Lorenzo Fiume, of the soundtrack for the dance show "Garbage Girl", in occasion of the Cantieri dell'Immaginario - Associazione Aquilana Concerti B. Baratteli, L'Aquila, Italy. The show has been in tournée in Italy (among the others at the Teatro Vascello in Rome) and worldwide.

June 2013 | Training license of Ju Jitsu and Karate (black-belt obtained in both disciplines).

September 2012 - October 2013 | English Course, The Shenker Institute of English, Rome.

February 2012 - Present | Co-founder and music director in Resiliens.
www.resiliensrecordings.com
www.resiliensastra.com

10/01/2024

