

# FEDERICO BELFI

## PERSONAL INFORMATION

*email*

*phone*

## CERTIFICATIONS AND PROFESSIONAL ORDER

- 2023 UAS Specific  
ENAC Enabled to Specific operations with declaration on STS-01 and STS-02 scenarios. This qualification allows to request NOTAM to operate a drone in particular or restricted environments, such as airport's red zones. Used for thermography audits on PV fields or buildings, photogrammetry, laserscanner.
- 2023 EcoStruxure Building: SmartX Engineering Certification  
Schneider Electric Certified as EcoStruxure Building Expert. This certification gives the habilitation to design, develop and operate a complex architecture of servers, networks and sensors related to the building automation.
- 2019 Membership at Italian association of engineers  
Ordine degli Ingegneri di Viterbo Member of the Italian association of engineers with habilitation in the industrial sector, N° A-1083.
- 2019 UNI CEI 11339 Certification  
ACCREDIA Secem Certified as Expert in Energy Management according to UNI CEI 11339. Industrial sector certificate N° 0019-SI-EGE-2019.
- 2019 Power Monitoring Expert Certification  
Schneider Electric Certified as EcoStruxure Power Monitoring Expert. This certification gives the habilitation to design, develop and operate a complex architecture of servers, networks and sensors. This architecture is certified by TUV as compliant to the requirements of ISO 50001, ISO 50002 and ISO 50006.

## WORK EXPERIENCE

- 2022–now ORDINE DEGLI INGEGNERI DI VITERBO  
Ordine degli Ingegneri, Councillor  
Councillor of the Order of Engineers of Viterbo, in charge of coordinating the "Energy and Plants" Commission.  
Working in the focus group related to the APE Lazio verification.
- 2021–now INTERPRO ENG. CO. S.R.L. – Civita Castellana (VT), IT  
Interpro, Consultant Civil MEP & Energy Efficiency  
Consultant for different activities related to Mechanical & Electrical Plants in Civil applications. The activities include a particular focus on the energy efficiency, sustainability and respect of the main European rules and guidelines, such as the DNSH (Do No Significant Harm).  
The activities also include the responsibility for the MEP part in responses to invitations to tender on public bids for large structures such as Universities, Courthouses, etc.

- A.p.e.a.l.,  
Consultant  
Industrial MEP  
Energy Efficiency  
Specialist*
- 2021–now A.P.E.A.L. S.C.A.R.L. – Civita Castellana (VT), IT  
Consultant for the APEA (Ecologically Equipped Productive Area) as energy efficiency specialist and certified Expert in Energy Management (UNI CEI 11339). Development of energy, waste and second life material balances. Responsible of the mandatory document "Diagnosi Energetica 102/2014" for all the companies participating in the APEA POR-FESR Lazio call for proposals.  
Last public success: supported companies reached the first four positions in Lazio region rankings, obtaining funds for a total of 3.242.092,87 € authorized investments. [Link BUR Lazio](#)
- Biometano Tuscia,  
Board Member*
- 2020–2022 BIOMETANO TUSCIA S.R.L. – Viterbo, IT  
Collaborated with fellow board members to develop and execute strategic plans, ensuring the long-term growth and sustainability of the biomethane production plant company.  
Actively participated in board meetings, offering insights and recommendations based on industry knowledge and expertise.  
Played a key role in establishing partnerships and securing funding opportunities to support the company's expansion and innovation initiatives. Contributed to the development of corporate governance policies, ensuring compliance with relevant regulations and best practices.
- Stamnos Mobility,  
Authorization  
&  
Business  
Development*
- 2020–now STAMNOS MOBILITY S.R.L. – Viterbo, IT  
Site identification and land purchase options definition. Technical management of the "VIA PAUR" Italian authorization process for liquid Bio-methane production plants, with or without carbon capture and methanation by means of green Hydrogen (Buy Contract or Gas As a Service approach). Preparation of the required documents and support to the Due Diligence after the authorization obtaining.  
Single Point of Contact between proposer companies and public institutions and authorities, including Fire Department, ARPA, ASL, etc.  
Last public success: Completed PAUR authorization process for Biometano Tuscia s.r.l., a future City Waste Bio-methane Plant. [Link PAUR](#)
- Stamnos Energy,  
Project Manager*
- 2019–now STAMNOS ENERGY S.A.S. – Viterbo, IT  
Responsible for projects timeline design and control with the main objective of guaranteeing the shortest plant stop. Interaction with the Commercial Manager during the projects quotation. Responsible for the implementation of the new Power Monitoring Cloud Service. Point of Contact between the Company and the External Contractors.
- Argotec s.r.l.,  
Sales Engineer*
- 2018–2019 ARGOTEC S.R.L. – Torino, IT  
Responsible for the communication with the customers of the company regarding thermal management devices and services. Searching applications where space devices can be used on ground.
- Argotec s.r.l.,  
Project Engineer*
- 2017–2019 ARGOTEC S.R.L. – Torino, IT  
Working as Project Engineer supporting operations on ISS payload such as ISSpresso and Thermal Exchange. Managing small projects of short duration (6-12 months) coordinating the work packages activity of up to 8 partners and sub-co.
- DESTEC,  
Univ. of Pisa*
- 2013–2015 Thermal Consultant, SIDEL s.p.a. – Mantova, IT  
Worked as consultant (with a Grant of 15 months) for a project financed by SIDEL (Tetrapak satellite company) to study an innovative packaging solution. Reference: Sauro FILIPPESCHI · +39 050 2217153 · [s.filippeschi@ing.unipi.it](mailto:s.filippeschi@ing.unipi.it)

## EDUCATION

2013–2017 University of Pisa, Pisa

*MSc Engineering*

*Energy* · Department of Energy, Systems, Landscape and Construction  
Thesis: *Pulsating Heat Pipe: an innovative heat exchanger for non conventional applications.*

Projects:

PHOS Project(ESA/DLR/SSC) - *Payload Manager / Thermal Design*

ESA 61<sup>th</sup> parabolic flight campaign - *Labview Software*

Formula Student SAE (E-Team Squadra Corse) - *Powertrain Consultant*

2007–2013 University of Pisa, Pisa

*BSc Engineering*

*Energy* · Department of Energy, Systems, Landscape and Construction  
Thesis: *Experimental analysis of Closed Loop Two Phase Thermosyphon (CLTPT).*

Projects:

Formula Student SAE (E-Team Squadra Corse) - *Powertrain Team Leader*

## PUBLICATIONS

10 Jun 2018 Space structures with embedded Flat Plate Pulsating Heat Pipe built by Additive Manufacturing technology: development, test and performance analysis.

*IHPC Int. Heat Pipe Conference*

Article presented during the 19th International Heat Pipe Conference. The article reports the development and test of a new cubesats structure with embedded two-phase TCS.

The article has been honored with the "Best paper award for industrial applications"

[Article Link](#)

9 Jun 2015 Phos Experiment: Thermal Response of a Large Diameter Pulsating Heat Pipe on board REXUS 18

*ESA Symposium*

Article presented on the 22nd ESA Symposium on European Rocket and Balloon Programmes and related research in Tromsø, Sweden.

24 Jun 2015 Pulsating Heat Pipe Only for Space: Results of the REXUS 18 Sounding Rocket Campaign

*UIT Conference*

Article presented on the 33rd UIT Heat Transfer Conference in L'Aquila, IT

2015 A pulsating heat pipe for space applications: Ground and microgravity experiments

*Int. Journal of Thermal Science*

95

Worked on the sync between two different acquisition system for data and High-Speed Camera during ESA 61th Parabolic Flight Campaign.

[Article Link](#)

2013 Experimental analysis of Closed Loop Two Phase Thermosyphon (CLTPT) for energy systems

*Exp. Thermal and Fluid Science* 51

My Bachelor's thesis was used to publish this article on the International Journal of Experimental Heat Transfer, Thermodynamics, and Fluid Mechanics

[Article Link](#)

## SKILLS

<i>Language</i>	Italian(Mother-tongue) , English(B2 - EF school in Australia, Cyprus and Ireland), French(Basic)
<i>Software &amp; Programming</i>	Microsoft Project, Microsoft TEAMS, Microsoft Planner, SLACK, Trello, Solidworks, Comsol, Ansys, Star CCM+, Mathematica, R, Python, Matlab, Labview, SQL, L <sup>A</sup> T <sub>E</sub> X, Microsoft Office, Adobe Suite,VMware ESXi & vSphere, Linux, Microsoft Windows, C++, Java, ModBus, QGIS, Codesys
<i>Technical</i>	Project Management, Italian Industrial Plant authorization processes, Industrial process optimization, Thermal Management, Two-Phase, Ultra-high Vacuum, Experimental Analysis, Experiment Design, Testing Procedures, Technical Reports, ECSS Standards, SSP NASA Standards, MIL Standards, ISO50001 (Energy Management), ISO17743 (Energy Saving calculation and reporting), Thermography, Photogrammetry, Laserscanner, SLAM, IEC 61131-3
<i>Social</i>	Team Leading, Team Working, Time Management, Large public front speech

## OTHER INFORMATION

<i>Interests</i>	Motorcycle, Cooking, Sailing, F3K competition, Impró comedy, Travel, Space, Rugby.
<i>Drive License</i>	A1 - A3 - B, Sail Boat License.
<i>Me</i>	Open to work in a foreign country, very interested in traveling to work. I always do my best when I work and never give up. Open to work flextime and during the weekends.

I authorize the processing of my personal data included in my CV according to the EU regulation 2016/679

March 14, 2024