

Curriculum vitae

PERSONAL INFORMATION



Francesco Papi

📍 Via Ferrara 30/S, 59100 Prato (Italy)

☎ (+39) 3467860352

✉ francesco.papi09@gmail.com

🌐 <https://www.linkedin.com/in/francescopapi/>

💬 Skype francesco.papi3

Sex Male | Date of birth 21/09/1994 | Nationality Italian, American

PERSONAL STATEMENT

Precise and methodic with a good global vision of tasks. English and Italian mother tongue. Occasional street and travel photographer and cyclist in my free time. Passionate about design and modern art. I would like to contribute to the development of more sustainable technologies.

WORK EXPERIENCE

01/06/2019–31/10/2019

Researcher

LINEA Lab - PIN S.c.r.l, Firenze (Italy)

- Evaluation of open-source methods for numerical analysis and design of turbochargers

01/08/2018–31/12/2018

University research intern

Hermann Föttinger Institute - TU Berlin, Berlin (Germany)

Erasmus + Traineeship

Research in the fields of energy & fluid-dynamics. Validation and development of innovative aero-elastic codes for wind turbine simulation in collaboration with TU Berlin research group.

- Development of a Python script to evaluate fatigue loading on wind turbines
- Set-up of servo-aero-elastic simulations according to industry standards

EDUCATION AND TRAINING

01/11/2019–Present

PhD, Industrial Engineering

EQF level 8

Department of Industrial Engineering - Università degli Studi di Firenze, Firenze (Italy)

Energy and Innovative Industrial and Environmental Technologies

25/11/2016–09/04/2019

Master of Science, Energy Engineering (110/110 with honors)

EQF level 7

Università degli Studi di Firenze, Firenze (Italy)

Energetics (Power-plant design, ICE design, refrigeration systems, combustion fundamentals, air-treatment fundamentals), *Renewable Energy* (wind, CSP, photovoltaic, geothermal plants), *Mechanical Design* (finite element analysis, computational fluid dynamics, rotating machine design).

Thesis title: Comparison Between a BEM and Lifting-Line Based Aeroelastic Codes for Multi-MW Wind Turbines from a Loading Perspective.

15/09/2013–25/11/2016

Bachelor Degree, Mechanical Engineering (110/110 with honors)

EQF level 6

Università degli Studi di Firenze, Firenze (Italy)

Basics of mechanics, physics, advanced calculus, differential equations, basics of economics.

Thesis title: Flywheel Energy Storage Systems: State of the Art and Applications

15/09/2008–30/06/2013

High School Diploma (100/100)

EQF level 4

Liceo Scientifico N. Copernico, Prato (Italy)

PERSONAL SKILLS

Mother tongue(s) Italian, English

Digital skills**SELF-ASSESSMENT**

Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Independent user	Independent user	Independent user

Digital skills - Self-assessment grid

- *Programming languages:* Python, C/C++
- *CFD software:* OpenFOAM, Ansys Fluent-CFX
- *FEM software:* Hypermesh (Optistruct-Radioss), Comsol Multiphysics
- *Other:* Matlab, Microsoft Office (Excel, PPT, Word), LaTeX, Windows/Linux/MacOS

Other skills

- *Problem solving:* good capacity to analyze problems and suggest work arounds developed during my master thesis
- *Plan/Organize:* plan strategies suitable to achieve goals & milestones.
- *Achieve goals:* setting out ambitious but achievable goals has helped me complete my studies quickly.
- *Critical thinking:* during my time in university I have learned to approach a problem looking for areas of improvement.
- *Cognitive flexibility:* good capacity to look at problems from multiple perspectives, my term abroad has helped me in this. Independence: able to work proficiently and independently reach milestones as demonstrated in my traineeship & university projects.
- *Team work:* skill developed in university projects and perfected in my traineeship where I prepared periodic meetings and team reports.

Driving licence A, B

ADDITIONAL INFORMATION

Certifications Italian PE exam - qualification to practice the Engineering profession

Honours and awards Best Thesis award - "*Bando premi di Laurea Ordine degli Ingegneri della provincia di Firenze*", 7 Dec. 2019Memberships Mentee @ Mentors4u (2107-18, now Alumni), the biggest mentoring program in Europe
Handball player and involved in various volunteering activities

Courses Introduction to Scientific and Technical Computing in C, CINECA, 23-25 Sep. 2019

Publications Perez-Becker, S., Papi, F., Saverin, J., Marten, D., Bianchini, A., and Paschereit, C. O.: "Is the Blade Element Momentum Theory overestimating Wind Turbine Loads? – A Comparison with a Lifting Line Free Vortex Wake Method", *Wind Energ. Sci. Discuss.*, <https://doi.org/10.5194/wes-2019-70>, in review, 2019.

Privacy consent I authorise the handling of my personal data pursuant to the Italian Personal Data Protection Code – Legislative Decree n. 196/2003