

Ruben Pompilio

Curriculum Vitae

via Europa 27/b
Verbania, 28804
☎ +39 (338) 874-7492
✉ ruben.pompilio.ing@gmail.com
🔗 [LinkedIn](#)
DOB: November 18th, 1989

Energy Engineer

Soft Skills

LEADERSHIP, CREATIVITY, FLEXIBILITY, DISRUPTIVE INNOVATION, TEAM-WORKING, PRAGMATIC APPROACH

Work Experience

Jun 2018 – **Design engineer**, TENOVA S.P.A. - DELKOR, Castellanza (VA), IT.

Present **Sector:** *Filter press - solid/liquid separation*

- Products' mechanical design and optimization
- Machine maintenance planner
- Business and strategic developments

Sep 2015 – **Project Engineer**, ISTITUTO NAZIONALE DI FISICA NUCLEARE, Milano, IT.

Maj 2018 **Sector:** *Plant design and operations*

- Design of chemical plants for purification (distillation and stripping)
- CFD design of the equipment
- High vacuum design and leak tightness tests
- Plant and crew management within international science collaboration (JUNO project) with China, Russia and America
- Measurement laboratory coordinator, Labview programming and DAQ setups

Sep 2017 – **Freelance Engineer**, Milano, IT.

Present **Sector:** *Mechanics and energy*

- Power solutions for residential buildings
- Plant design of HVAC systems
- Reverse engineering of plants and mechanical components
- Fluid-dynamic simulations (CFD) to improve efficiency and reduce operative costs
- Stress analysis (FEM) to optimize and reduce the production costs of mechanical components

Sep 2014 – **Project Engineer**, PROMEC S.R.L., Ponte San Pietro (BG), IT.

Jun 2015 **Sector:** *Energy production*

- Turbines and valves maintenance
- Quality control for production
- Business processes quality
- Supplier's technical qualifications for the energy sector

Hard Skills & Interests

Energy HVAC, STEAM GENERATORS, HEAT TRANSFER, FLUID MECHANICS, VACUUM SYSTEMS DESIGN, ROTATIVE MACHINES

CAD SOLIDWORKS, SIEMENS NX, INVENTOR, SOLID EDGE, AUTOCAD

Codes LABVIEW, MATLAB AND SIMULINK, C++, VBA, ARDUINO, SIEMENS TIA-PORTAL S7-1200, PYTHON

CFD/FEM ANSYS, COMSOL MULTIPHYSICS, STAR-CCM+

Education

2017–2018 **Fondazione ISTUD**, *Executive Development Program - 82 ed.*

Topic: *Management*

- Business model and value creation
- Economics and strategic control
- Innovation and changes

Jul 2017 **Societa' Italiana di Fisica**, *Varenna (LC), Master: Advances in Basic Energy Issues.*

Topics: Bio-energy, CO₂ neutral fuels and environment and climate issues, Energy economy, Energy materials and materials shortage, Fission and fusion energy, Renewables power systems, Life cycle analysis

2015–2018 **INFN, Milano**, *Master courses.*

- Complete workflow in Ansys (Fluent and Mechanical)
- Multiphase simulation in Star-CCM+ (CD-Adapco Siemens)
- Labview Core 1 & 2
- Siemens Tia Portal S7-1200/1500 programming

2011–2014 **Politecnico di Milano, Milano**, *Master Engineering, Energy Engineering in Power Production.*

Thesis: Experimental analysis and models of multiphase flow in large diameter pipe (ENI collaboration).

- Design and model advanced energy systems with CFD techniques
- Machinery design: turbomachinery, electric motors, generators and I.C.E.
- Balancing techniques between renewables and traditional power production
- Knowledge of the energy market dynamics
- Strong knowledge of single and multi-phase thermodynamic, industrial processes and pollution control

2008–2011 **Politecnico di Milano, Milano**, *Bachelors Engineering, Energy Engineering.*

Languages

Italian **Native Speaker**

English **Advanced**

C1 level (TOEIC)

Russian **Basic**

Basic words and phrases only

Spanish **Basic**

Basic words and phrases only

Non-engineering interests

- Semi-professional musician in several orchestras and smaller groups: both in Italy and in Switzerland. Arranger and composer
- Mountain biker

Apr 2016 – **Executive President**, ASSOCIAZIONE MUSICALE ACCADEMIA, Verbania, IT.

Present **Sector:** *Non-profit organizations*

- Finance managements
- Technical coordinator of multiple ensembles: wind orchestra, jazz big band and chamber ensemble, with a total of 80 people

Legal authorization

I authorize the processing of my personal data pursuant to Legislative Decree 196 of 30 June 2003 and art. 13 GDPR (EU Regulation 2016/679) for the purposes of personnel research and selection.