

PERSONAL INFORMATION Diego Rattazzi**SUMMARY**

Focused on innovative energy systems for maritime application and smart grid during my PhD. Engineering knowledge with a Master's degree in "Aeronautical and Energy engineering" at the University of Genoa and a short experience as a manufacturing engineer in the aviation and aerospace industry.

Skilled in Matlab, Simulink and optimization software for energy system management.

I try to combine my technical knowledge with the more human aspects of life through international cooperation activities that give me the opportunity to travel and see the world from different points of view.

I love to keep my body and mind healthy by doing sports and playing the guitar.

WORK EXPERIENCE

From Nov 2017 **PhD Student in Mechanical Engineer**

Università degli Studi di Genova, DIME, Thermochemical Power Group-ITALY
Working on Energy harvesting, Smart Grids and innovative systems for maritime applications

October 2019 **Contingent work contract**

Università degli Studi di Genova.
Design of supplying services (power, gas and water) for a prototypal co-generative system.

Apr 2017 - Oct 2017 **Manufacturing Engineer in Ufficio Tecnologie Componenti Rotanti**

GE AvioAero - RIVALTA DI TORINO (TO) ITALY
Manufacturing, aeronautics, aerospace

Sep 2016 - Nov 2016 **Research trainee**

VTT Technical Research Centre of Finland, FINLAND
Development of the model of a power plant based on Organic Rankine Cycle with APROS software

EDUCATION AND TRAINING

Oct 2014 - Feb 2017 **Master's degree in Mechanical Engineering – Energy and Aviation (110/110)**

Università degli Studi di GENOVA - Department of MECHANICAL, ENERGY, INDUSTRIAL and TRANSPORT ENGINEERING
2nd cycle degree – Master

Oct 2011 - Sep 2014 **Bachelor's degree in Mechanical Engineering (100/110)**

Università degli Studi di GENOVA - Department of MECHANICAL, ENERGY, INDUSTRIAL and TRANSPORT ENGINEERING
1st level degree - Degree/Bachelor

Pre-university studies **Secondary school diploma: Scientific Certificate (95/100) in 2011**

OTHER EXPERIENCES

- From 2018
Project manager assistant
Support on writing project for national and international call for proposal
- April 2019
Volunteer experience in Madagascar with Januaforum and Moringawave
Focused on activities on moringa oleifera process development against malnutrition
- Sept 2018 – Dec 2018
Education and training on International Cooperation
Attended the “International Cooperation and Development” Master organized by Università degli Studi di Genova- Won the “Best project proposal Prize”.
- August 2015
Volunteer for “Libera Associazioni Nomi e Numeri Contro le Mafie”
Attended the summer project “Illuminiamo la salute” at Coop. Beppe Montana (CT), ITALY

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Linguistic experience(s) **European Union program**
ERASMUS
Duration of studies in months: 3
Foreign country where the academic studies were carried out: FINLAND

Communication skills Good skills in the interaction with people and scenarios that belong to different cultural backgrounds. Team spirit thanks to many years spent playing football. Public speaking experiences at scientific conferences and European project meetings

Organisational / managerial skills Good experience in the team working during the studies.
Leadership: I've been a member of the provincial student's Council in Savona, and captain of my football team for 4 years

Job-related skills Good knowledge of tools for energy plants simulation and thermo-economic optimization. Skills in the modelling of systems dynamics with Matlab SIMULINK. Ability to carry out activities within European projects both from a technical and write deliverables point of view.

Digital competence

- Operating systems:** Good
- Programming languages:** Good
- Word processing:** Excellent
- Electronic spreadsheet:** Good
- Data base administrators:** Good
- CAD skills:** Good
- Internet skills:** Excellent
- Data transmission networks:** Good
- Web-site creation:** Good
- Multimedia:** Excellent
- Programming languages known:** C++, Matlab, Fortran
- Software applications:** Word, Excel, Power Point, Matlab, Simulink, CREO, AutoCAD, SketchUp

Other skills Among my greatest passions are sport and music. I love collecting vinyl CDs and going to concerts. In my spare time I play guitar to relax. I like to keep myself in good shape by training daily and playing soccer with friends once a week.

Driving licence B

ADDITIONAL INFORMATION

- Publications**
- “Clean energy production by PEM fuel cells on touristic ships: a time-dependent analysis”; *M.Rivarolo, D.Rattazzi, T.Lamberti, L.Magistri*; International Journal of Hydrogen, 2020
 - “Techno-economic analysis for the assessment of heat pump integration in a real poly-generative energy district”; *Barberis S., Robello P, Rattazzi D., Rivarolo M., Bellotti D., Magistri L.*; E3S Web of Conferences, 2019
 - “Control Strategies for solar façade panels coupled with a Heat Pump and interacting with a District Heating Network”; *Rattazzi, D., Rossi, I., Magistri, L., Erich, S.J.F.*; E3S Web of Conferences, 2019
 - “A design tool for the performances comparison of innovative energy systems for naval applications” *Rattazzi, D., Rivarolo, M., Lamberti, T., Magistri, L.*; E3S Web of Conferences, 2019
 - “Shipboard distributed energy resources: Motivations, challenges and possible solutions in the cruise ship Arena”; *A.Boveri, G.A. Di Mare, D.Rattazzi, P.Gualeni, L.Magistri, F.Silvestro*; International Shipbuilding Process, 2019
 - “Innovative Energy Systems: Motivations, Challenges and Possible Solutions in the Cruise Ship Arena”; *A.Boveri, M.Maggioncalda, D.Rattazzi, P.Gualeni, L.Magistri, F.Silvestro, A. Pietra*; NAV International Conference on Ship and Shipping Research, 2018
 - “Best operative strategy for energy management of a cruise ship employing different distributed generation technologies”; *M.Rivarolo, D.Rattazzi, L.Magistri*; International Journal of Hydrogen, 2018