



LORENZO TESTA

PHD GRADUATE STUDENT IN ENERGETICS AT POLITECNICO DI TORINO

WORK EXPERIENCES

PHD Graduate Student in ENERGETICS at Politecnico di Torino (Turin, Italy)

November 2020 - currently

Project: "Towards Sustainable Biofuel production for Aviation, Marine and Heavy Duty"

Research Engineer, Application and Support at Convergent Science GmbH (Linz, Austria)

March 2018 – October 2020

Client support, training, benchmarking, project management, consultancy in CFD modelling field

Intern at Convergent Science GmbH (Linz, Austria)

October 2017 – March 2018

Master thesis development: "Combustion modelling of a natural gas engine with detailed chemistry in CONVERGE CFD software"

Thesis project presented at the CONVERGE European User Conference (Bologna, March 2018)

Intern at WACKER Chemie AG (Burghausen, Germany)

July 2015 – September 2015

Process development: thermodynamic and economic efficiency improvement of an existing process for separating waste gases by using Aspen Plus flow diagram simulation software

EDUCATION

Politecnico di Torino

Master's degree in Mechanical Engineering, LM-33

September 2015 – April 2018

Course taught in English

Master's thesis: "Combustion modelling of a natural gas engine with detailed chemistry in CONVERGE CFD software"

Università degli Studi dell'Aquila

Bachelor's degree in Mechanical Engineering, LM-9

October 2011 – July 2015

Bachelor's thesis: "Characterization of an active orthosis for lower limbs"

PROJECTS

Politecnico di Torino

- **"BIKE - Biofuels production at low-Iluc risk for European sustainable bioeconomy"**

November 2020 - currently

- **"Analysis of the potential impact of Lower Carbon Aviation Fuels (LCAF) in the European alternative fuel sector"**

November 2020 - currently

- **Maker Competition – Desalination (team member)**

March 2016 – October 2016

Development, prototyping and testing of a sea water desalinator ("Matrioska desalinator") for the international competition "Maker Competition".

FEM analysis for studying the thermodynamic process of evaporation and condensation.

CONTACT:

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DATE OF BIRTH: 26.01.1992

LANGUAGES:

- Italian – mother tongue
- English – C1/2
- German – B1/2

CERTIFICATIONS:

- Certificate of Advanced English (CAE) - University of Cambridge
- Deutsch B1 - Deutsch als Fremdsprache, Teil 5 - WIFI Österreich
- ECDL (European Computer Driving Licence)

SKILLS:

- Communication
- Public speaking
- Management
- Team working
- Teaching

HOBBIES:

- Painting
- Photography
- Reading
- Writing
- Travelling
- Hiking