

Francesco Neirotti

Energy Engineer - PhD Student at Politecnico di Torino

Place and Date of Birth: Torino, 18/03/1993

🏠 Via Giacinto Pacchiotti 23, Giaveno 10094 (TO), Italy | 📞 (+39) 342 698 2091

✉️ fra.neirotti@gmail.com, francesco.neirotti@polito.it | 🌐 LinkedIn – ResearchGate - ORCID



Summary

Francesco Neirotti graduated in 2018 in Energy and Nuclear Engineering at Politecnico di Torino. During his studies he had two working experiences: one in an HVAC engineering firm in Turin and one at UTRC – Ireland where he also developed his MSc thesis about Low Temperature District Heating Networks. He is now a PhD student at Politecnico di Torino and he is studying different pathways for the decarbonization of the Heating and Cooling sector in urban areas through renewable energy sources, heat pumps and district heating systems.

Education

Politecnico di Torino – Turin, Italy

November 2018 - On Going

PhD – Energy Department

Research activity in the Heating & Cooling sector with focus on Heat Pumps and District Heating Systems in urban areas.

Politecnico di Torino – Turin, Italy

October 2015 - October 2018

MSc in Energy and Nuclear Engineering – Innovation in Energy Production

Thesis: “Comparison of different strategies for the decrease of operational temperatures in existing district heating networks”

It was developed during an internship at UTRC Ireland

Politecnico di Torino – Turin, Italy

October 2012 - October 2015

BSc in Energy Engineering

Thesis: “Problems and achievable solutions in the connection of renewable sources in a Smart Grid”

Work Experience

Internship in “UTRC – Ireland” – Cork City, Ireland

February 2018 – July 2018

In this 6months internship I worked in the E2D project (H2020 EU). Simulation modelling of district heating networks using Dymola software. I also carried on some activities related to coupling heat pumps and district heating systems. This experience produces a scientific [article](#) that was published in January 2018.

Internship in “DEGMAR” – Turin, Italy

July 2017 – December 2017

In this 6months internship I managed different activities in thermo-technical design field (HVAC): design of a natural gas distribution line, design of a climate chamber for automotive tests, HVAC design in a refurbishment of a historical villa.

Computer Skills

Some examples of software application in case studies from university courses or internships are provided. Simply follow the link connected to the software name. Other projects are available in the project section of my LinkedIn profile.

- Excellent knowledge of the complete [Office package](#), LaTeX, Prezi software for presentations.
- Good knowledge of the following software gained during university projects and working experiences: [Aspen Plus](#), [COMSOL](#), SolidWorks, [MATLAB](#), Freefem++, AutoCAD, [Polysun](#), [Dymola](#).
- Good knowledge of the following programming languages: C, Modelica, Python, R.

Languages

- Mother tongue: **Italian**
- Other Languages: **English level C1** (IELTS awarded in 2015 and First Certificate awarded in 2012)

Additional Information

- Good adaptation capacity and positive attitude to team work matured during working experiences.
- Good communication and presentation skills gained through university experiences and relations with costumers during internships.
- Ability to search, collect and validate information matured during both university projects and during research activities in the PhD.
- Passionate about extreme sports, mountain trekking and cooking.