CARLA PETTA

ELECTRICAL ENGINEER

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EXPERIENCE

University Tutor
Polytechnic of Turin

📅 March 2022 – Sept 2022 📍 Turin, italy

- Technical support for the electrotechnical laboratory.
- Interaction with the public in the central library of the university.

Private Tutor
Louis Academy - Preparation for admission tests

📅 June 2021 – Sept 2022 📍 Caltagirone, Italy

- Learning support for admission tests in health areas.

University Tutor
University of Catania

📅 Sept 2020 – Sept 2021 📍 Catania, italy

- Learning support for students with DSA.

PROJECTS

Master thesis in collaboration with the host company Imperix: Automatic identification of machine parameters for AC motor drive.

📅 Sept 2023– March 2024 📍 Sion, Switzerland

Stability and control of an electrical power system: rotor angle, voltage and frequency stability.

📅 March 2023 📍 Stockholm, Sweden

Dynamic Grid Impedance Estimation, in close collaboration with Siemens Gamesa Renewable Energy (SGRE).

📅 Dec 2022 📍 Stockholm, Sweden

Design of a Step-Down (Buck) DC-DC Converter

📅 Dec 2022 📍 Stockholm, Sweden

Design of an onshore wind farm: technical and economical aspects.

📅 Dec 2022 📍 Stockholm, Sweden

Near DC fields: disturbance generation caused by the movement of a magnetized object (e.g. electric transport).

📅 Dec 2021 📍 Turin, Italy

EDUCATION

PhD in Power Electronics
KTH-Royal Institute of Technology

📅 April 2024 – ongoing 📍 Stockholm, Sweden

- Research focus: Compatibility of Power Electronic Converters in 16.7 Hz Power Supply Systems.

D.D. in Electric Power engineering
KTH-Royal Institute of Technology

📅 Aug 2022 – March 2024 📍 Stockholm, Sweden

M.Sc. in Electrical engineering
Polytechnic of Turin

📅 Sept 2021 – March 2024 📍 Turin, Italy

- Thesis title: Automatic Identification of Machine Parameters for AC Motor Drives.
- Final Degree: 98/110

B.Sc. in Industrial engineering
University of Catania

📅 Sept 2018 – Oct 2021 📍 Catania, Italy

- Thesis title: Power factor correction and filtering of harmonics in electrical installations.
- Final Degree: 110/110

Scientific High School
I.I.S.S. "Majorana-Arcoleo"

📅 Sept 2012 – July 2018 📍 Caltagirone, Italy

- Final Degree: 90/100

SOFTWARE SKILLS

Matlab · Simulink · FEMM · PSpice · GAMS · PSS®E · Arduino · Python · GitHub · C · LaTeX · Microsoft Office

STRENGTHS

Hard-working · Communication skills · Responsible · Time Management · Motivator & Leader

INTERESTS

Literature · Music · Dance · Painting · Technology · Movies · Science

LANGUAGES

Italian ● ● ● ● ●

English ● ● ● ● ●

CERTIFICATES

Cambridge English:First (FCE) B2

📅 Nov 2021

- Score: 166