ACEMP-OPTIM25-000020 "Characterization of Permanent Magnet Magnetization for Segmented Halbach Arrays"

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Bio

Giovanni Landi was born in Pisa in 1999. He received his Master's degree in Electrical Engineering from the University of Pisa on October 4th, 2022. In November 2022, he started his doctoral studies in Energy, Systems, Territory and Construction Engineering (DESTEC) at the University of Pisa.

His research focuses primarily on electric machines and transformers.
In particular, he is interested in brushless permanent magnet (PM) machines designed to achieve high torque density, while also aiming to reduce the reliance on rare-earth-based materials — a crucial goal for sustainability. In this context, in 2023 he completed a one-year internship at Vitesco Technology Italy srl, gaining practical experience to support his ongoing research.

In the field of electrical transformers, his efforts are concentrated on the study of amorphous single-phase transformers operating at medium frequencies. These investigations support the development of Dual Active Bridge (DAB) converters, which are key components in electric vehicle charging infrastructure.
Currently, Giovanni is spending a research period abroad at UCLouvain university in Belgium, where he continues to deepen his studies.