

# **LUCA DI STASIO**

## **Postdoctoral (Experienced) Researcher in Mechanical Engineering**

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**Italian & EU Citizen**

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**Driving License B (IT)**

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Dear Hiring Team,

My multidisciplinary engineering background, along with my experience in developing automated software pipelines for the iterative design and analysis of multi-physics systems, provide me with the skills to strengthen SOEC hardware development at Topsoe in an Innovative Mechanical Development Engineer capacity.

I offer proficiency in CAD/CAE and multi-physics software, and the development of software solutions (in Matlab, Python, C++, R, Julia, Mathematica, VBA, and combinations of them) for the semi- and un-supervised automatic construction of CAD models, creation of meshes (2D/3D), multi-physics simulation, and data extraction and analysis. I have experience in milling, turning, drilling, soldering, manufacturing of fiber reinforced composite laminates, production of electrical transformers, circuit design and installation, thermo-mechanical testing, strain sensing, NDT inspection, imaging (thermal, high-speed optical), and the development and implementation of custom technical equipment in adherence with relevant standards. I am expert in several programming languages and libraries as outlined in my CV.

Curious by nature, I devoted my formative years to build a solid background in multiple areas of engineering. The opportunity of living and working in several countries has allowed me not only to become fluent in different languages but most importantly to master cross-cultural communication skills. Flexibility, adaptability, and rapid response to change are qualities that I have nurtured by navigating multiple work environments. From my Master's thesis through my Ph.D. project to my postdoctoral fellowship, I have learned to manage international projects from inception to exploitation. Honesty, transparency, and a positive attitude towards challenges have helped me earn the trust of each stakeholder involved. The ability to communicate candidly in the workplace has allowed me to build a broad network across different countries and scientific fields. A self-starter, I am comfortable working in a team as well as independently and able to deliver under minimal or no supervision.

I am eager to put my skills and experience in service of Topsoe's mission, and I am confident we should arrange a time to meet. In the meantime, I wish to thank you for taking the time to consider my application and review my qualifications.

Sincerely,

Luca Di Stasio