

Mirko Rocci - CV

Dr. Mirko Rocci, Ph.D., is a condensed matter physicist based in L'Aquila, Italy, and a member of the Technology Department at Thales Alenia Space in L'Aquila. His work lies at the intersection of advanced materials, quantum science, and space technologies, with a strong focus on the development of innovative solutions for space applications. He is involved in research activities on high-performance polymer composites, multifunctional materials, thermal management systems, and advanced material integration for next-generation space platforms. His expertise includes the use of two-dimensional fillers such as graphene and hexagonal boron nitride to enhance the thermal, mechanical, and electrical properties of polymer-based systems. He also works on System-in-Package technologies and on the qualification of advanced materials and processes for space applications. He currently leads for Thales Alenia Space Italia the Horizon Europe project FOCUSING, contributing to innovation in a strategic European research framework. He is the author of 28 peer-reviewed scientific publications in high-impact journals and has led research and innovation projects with a combined value exceeding €3 million. Over the course of his career, he has received two Thales Alenia Space Innovation Awards and was most recently recognized with a Special Mention at the Leonardo Innovation Award 2025 for the G-DEPM project. Between 2018 and 2021, he was a Marie Skłodowska-Curie Global Fellow, carrying out the outgoing phase of the fellowship at the Moodera Lab at MIT under the supervision of Dr. J. S. Moodera, and the return phase at the SQEL group at NEST, jointly operated by CNR and Scuola Normale Superiore in Pisa, under Dr. F. Giazotto. He obtained his Ph.D. from Universidad Complutense de Madrid, following academic training that also included the University of L'Aquila, where his research focused on the interaction between ferromagnetism and superconductivity in complex oxide interfaces.

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