

CURRICULUM VITAE

Name and Surname	Stefano Moscato
Place and date of birth	Pavia (Italy), April 3 rd 1988
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Working experience

Period	From October 2024 to nowadays
Position	Head of Passive Microwave and O-RU RF System Laboratory
Company, location	SIAE MICROELETTRONICA – Cologno Monzese (MI), Italy
Specific tasks	<ul style="list-style-type: none">Managing the development of passive components for P2P microwave links;Coordinating the design of high-power RF front-end systems for macro radio units;Responsible for innovative research programs funded by EU in partnership with private companies, RTO and Universities;SIAE representative of “Distretto di Microelettronica” of Pavia.
Period	From May 2017 to September 2024
Position	Microwave and mm-wave designer
Company, location	SIAE MICROELETTRONICA – Cologno Monzese (MI), Italy
Specific tasks	<ul style="list-style-type: none">Design, realization and testing of waveguide and planar passive components for applications up to D-band (130-170 GHz);Part of innovative developments on mm-wave P2P links, E-band high power amplifiers and steerable antennas;Responsible of technical programs of EU/ESA funded projects on microwave passive components, amplifiers, and antennas.
Period	From November 1 st , 2015 to April 30 th , 2017
Position	Hardware and RF engineer
Company, location	Azcom Technology – Rozzano, Italy
Specific tasks	<ul style="list-style-type: none">Design and test of LTE RF chains for small cells and RRHs;
Background skills	<ul style="list-style-type: none">EM characterization of standard and non-standard materials;Preliminary design of mm-wave ultra-wideband imaging radar for breast cancer detection;Design and testing of graphene-based microwave attenuators in cooperation with the Italian INFN.

Education

Period	From November 2012 to October 2015
University	University of Pavia – Department of ECBE
Affiliation	Microwave Laboratory
Degree course	PhD in Electronics, Computer Science and Electrical Engineering
Graduation date	January 12 th , 2016
Thesis title	Substrate integrated waveguide components for the Internet of Things: novel structures, materials, and manufacturing techniques.
Period	From December 2014 to April 2015
University	Guest Researcher at Georgia Institute of Tech. - Atlanta, GA, USA
Affiliation and advisor	Adaptive Techniques in Hybrid Electromagnetic Numerical Applications (ATHENA) laboratory – Prof. Manos M. Tentzeris
Research purposes	Exploiting the 3D printing tech. for microwave passive devices.
Period	From October 2010 to September 2012
University	University of Pavia

Degree course	MS degree in electronic engineering – microelectronic curriculum
Thesis title	Quasi-optical aberration analysis for Sardinia Radio Telescope
Graduation date and mark	September 20 th , 2012 - 110/110

Period	From October 2007 to September 2010
University	University of Pavia
Degree course	BS degree in electronic and telecommunication engineering
Thesis title	Design and implementation of multilayer dichroic mirrors
Graduation date and mark	December 15 th , 2010 - 101/110

Competences and personal skills

Software/equipment experience	ANSYS Electronics Desktop, Keysight ADS/Momentum, Mathworks Matlab, millimeter wave VNA and spectrum analyser. Suite for 5G generation and demodulation.
Scientific paper reviewer	Reviewer for scientific journals and member of conferences TPC.
Organizing skills	Excellent communication skills: <ul style="list-style-type: none"> • interfacing with complementary microwave and hardware laboratories, mechanical and electrical engineering department; • involved in meetings with suppliers and final customers; • managing meetings with current and future partners to show project progresses and outcomes; • from Sept. 2012 since Nov. 2015, involved in IEEE as chairman of the University of Pavia's branch.

Conferences

Title	European Microwave Conference
Dates and location	2024 – Paris (FRA) 2023 – Berlin (GER) 2022 – Milano (ITA) and past editions from 2013.
Title	Mobile World Congress – Barcelona (ed. 2025, 2024)

Main publications (complete list of publication available on personal web page)

2024	<p>"GaN/SiC V-band 10 W high-power amplifier for inter-satellite communications," Int. Journal of Microwave and Wireless Tech.</p> <p>"Bandpass filter with multiple selective absorptive stopbands for 28 GHz transmitters." Int. Journal of Microwave and Wireless Tech.</p> <p>"Ka-Band Phased Antenna Array Concept for High-EIRP Satellite Connections," 2024 18th EuCAP.</p>
2023	"Circularly Polarized Coaxial Horn Filtenna for Electromagnetic Interference Mitigation," in IEEE Trans. on Antennas and Propagation.
2022	"A mmWave Power Booster for Long-Reach 5G Wireless Transport," in Microwave Journal
2021	<p>"A Steering Antenna for Long-Reach mmWave X-Haul Links," in Microwave Journal, Oct. 2021.</p> <p>"Ku/Ka band Diplexer Based on Thin-film Technology for Small Ground-segment User Terminals," in International Journal of Microwave and Wireless Technologies.</p>
2019	"Challenges of Using Phased Array Antennas in Commercial Backhaul Equip. at 26 GHz," IMCL 2019
2018	"E-band Radio Fiber as Low-Cost mm-Wave Waveguide Junction" 48 th European Microwave Conference
2016	"Quarter-Mode Cavity Filters in Substrate Integrated Waveguide Technology," IEEE TMTT
2015	"Additive Manufacturing of 3D Substrate Integrated Waveguide Components," IET Electronics Letters

Other interests

Sport & various	I have practiced weightlifting for 15 years with significant results. I have strong passions about nature, sailing boats and photography.
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