

Emanuela PROIETTI received the degree in Electronic Engineering in 1996. From 1996 to 2000 she worked as Clean Room Lead Engineer in Texas Instruments Italia, Avezzano semiconductor plant. In 2000 she joined the ALCATEL Italia, Rieti plant as Maintenance Director for Surface Mount Technology assembly production equipments. In 2001 she joined IMM-Rome as Research Engineer. From 2005 to 2014 she has been the Clean Room Area coordinator of IMM-Roma institute. In 2010 she spent one month in the Prof. Peter H. Siegel's group, CalTech and JPL in Pasadena, to study the SAR of tissue exposed to low power millimeter radiation by the project "Biological Impact and mechanism of Low Intensity Millimeter Wave Interaction with tissue" funded by Short term Mobility Program. She has been the coordinator of a "Great Relevance" joint research projects "Metamaterial Based Microwave Communication Technologies" co-funded by Italian Ministry for Foreign Affairs, General Directorate for Country Cultural Promotion in the context of the "Executive Protocol of Cooperation between Italy and Hungary for the years 2011-2013. In 2012-2016 she has been involved in two European Commission FP7 research projects: FP7-NMP-2011-SME-5 "V-SMMART - Nano Volumetric Scanning Microwave Microscopy Analytical and Research Tool for Nanotechnology" and FP7-PEOPLE-2012-ITN "Nanomicrowave - Microwave Nanotechnology for Semiconductor and Life Sciences" on Scanning Microwave Microscopy-SMM. In 2016-2018 she has been the coordinator of the Great Relevance project "Design and Test of Micro-fabricated microwave probes for magnetic materials characterization" co-funded by Italian Ministry of Foreign Affairs, General Directorate for Country Cultural Promotion in the context of the "Executive Protocol of Cooperation between Italy and and the United States for the years 2016-2018". She is the coordinator of ADRIANA National Italian Program (Grant number 15364 Regione Lazio), to investigate microwave imaging as preserving and monitoring tool for cultural heritage artworks. Her current scientific interests cover RF-MEMS devices, polymeric based RF devices and membrane and metastructured devices for microwave.