Curriculum Vitae et Studiorum of GIOVANNI MARIA SARDI

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Gender Male

Electromagnetism and RF electronics: design of antennas and microwave devices, EM compatibility problems, analysis and developing of EM simulators, radar system and related signal processing techniques. Near-Field systems and modelling for local characterization of samples.

Principal area of interest Research and Development: management and control of research program and project

Professional Experiences

Period	<u>04/11/2013 at today</u>
Job	Post-Doc Research Fellow
Main activities	Research activities in the framework of FP7 Research Project "VSMMARTNano" for developing new techniques and systems for microwave microscopy
Job place	Institute for Microelectronic and Microsystems – National Research Council of Italy (CNR) - Rome
Area	Research, design and modeling on RF system for microwave microscopy
Period	<u>01/02/2013– 30/04/2013</u>
Job	Short Post-Doc scholarship
Main activities	Research and design on metamaterials for antennas application (filtering and focusing systems)
Job place	Department of Information Engineering – University of Siena
Area	Research and design on electromagnetic engineering
Period	<u>01/10/2009 – 18/12/2012</u>
Job	PhD student
Main activities	Developing of a numerical tool for the description of propagation properties of multilayered planar periodic structures for electromagnetic application in microwave range
Job place	Department of Information Engineering – University of Siena
Area	Research and design on electromagnetic engineering
Period <u>01/0</u>	1/2009 – 30/04/2009
Job Sho	rt research grant
Main activities Res	earch on efficient electromagnetic model for the characterization of artificial

material

Job place	Department of Information Engineering – University of Siena
Area	Research on electromagnetic engineering

Period 01/01/20088 - 30/04/2008

Job Trainee on Master Degree thesis project

Main tasks Design of a radar system for monitoring vehicular traffic

- Job place Wavecomm S.r.L. Loc. Belvedere, Colle di Val d'Elsa (SI)
 - Area Radar system engineering

Education

Date	18/12/2015
Degree	PhD in Information Engineering (research area Electromagnetic Waves)
Main competences achieved	Development of electromagnetic models and design procedure for metamaterials for electromagnetic applications. Collaboration on external projects (Elettronica SpA, ESA, USAITC-A).
Thesis topic	"Homogenization techniques for metamaterials realized by multilayer planar periodic structures" – Supervisor Prof Stefano Maci
Institution	University of Siena
Date	January 2009
Degree	Passing the final state for the Professional Qualification in Information Engineering
Institution	University of Florence
Date	29/09/2008
Degree	Master Degree in Telecommunication Engineering
Mark	110/110 cum laude
Thesis Topic	"Design of a radar system for monitoring vehicular traffic" Supervisor Prof Alberto Toccafondi
Institution	University of Siena
Date	05/12/2005
Degree	Bachelor degree on Telecommunication Engineering
Mark	101/110
Thesis Topic	"Feasibility analysis for leaky waves antennas realized by EBG periodic materials". Supervisor Prof Filippo Capolino
Institution	University of Siena

Personal skills

Mother tongue	Italian
Foreign Language	English
Certification	C.A.E. – Certificate of Advanced English – level C1
Social skills	Devotion to team work and activity sharing on R&D topics Teaching for master's students Supervision of graduating students
Planning skills	Independence on design tasks and project management
Technical skills	Knowledge on use of following EM and electronic instrumentations: Spectrum analyzer, Network analyzer, Digital oscilloscope, Reflectometry analyzer
Computer skills	Microsoft and Linux OS and Office automation suite Electromagnetic CAD: CST Microwave Studio, Ansoft HFSS, Ansoft Designer, AWR Microwave Studio, Feko, Comsol. Programming Matlab and C language Video editing tools Hardware and Software problem solving
Driver's licence	Patente B (Italy)

It is implicitly authorized the storage of the present curriculum vitae and all the personal information here reported, on the basis of the current law on personal information and privacy

Attachment to the CV		
	University Courses and Activities	
PhD	 Attendance of the following short courses during the PhD programme Functional Analysis, prof Stefano Marmi, Numerical Analysis, prof Alessandra Papini, Advanced Techniques for Computational Electrogmagnetics, prof Raj Mittra Qos and design cross-layer for wide-band wireless networks, prof. Giovanni Giambene, Frequency Domain Techniques for Antenna Analysis, course inside the ESoA activities, c/o Università di Firenze, Artificial EBG Surfaces And Metamaterial For Antennas, ESoA, c/o Università di Chalmers (Goteborg), Advanced Mathematics For Antenna Analysis, ESoA, c/o Università di Zagabria (Dubrovnik), Modern Radar System, prof Werner Wiesbeck, Advanced Computation Electromagnetics for Antenna Analysis, ESoA, c/o E.P.F.L. (Losanna), Propagation and MiMo, ESoA, c/o Università di Siena, Effects to Be Observed with Metamaterials and Application Thereof, Metamorphose-Virtual Institute, c/o Università di Siena. ESoA = European School of Antennas <u>www.esoa-web.org</u> 	
	 Teaching Activities Short lectures on "Wide Band Antennas" for the "Antennas and Propagation" course in the Master Degree on TLC engineering and "Transmission Lines theory" for the "Electromagnetic Fields" course, in the Bachelor Degree on Information Engineering. Co-supervisor of the following thesis "Design of an 180° hybrid coupler usign complementary split ring resonators", student Francesco Montomoli; supervisor: prof Stefano Maci. (MD). "Extraction of effective parameters of metamaterial structures", student Giacomo Cigni; supervisor: prof Stefano Maci. (MD). "Analysis and Design of a calibration tool for measuring radiated em fields in an anechoic chamber", student Raffaele Stanziola; supervisor: prof Matteo Albani. (BD). "Numerical Analysis of Multistrate Frequency Selective Surfaces", student Marianna Biscarini; supervisor Frank Silvio Marzano (Sapienza University of Rome), °(MD) 	