europass Curriculum vitae

PERSONAL INFORMATION

Marasso Simone Luigi

Lungo piazza d'armi n. 6, 10034 Chivasso (Turin) (Italy)

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simone.marasso@polito.it

Date of birth 6 Jan 1981 | Nationality Italian

POSITION

Research, PhD

WORK EXPERIENCE

01/01/2014–Present

Researcher

National Research Council (CNR), Torino (Italy)

Researcher at ChiLab - Materials and Microsystems Laboratory (Chivasso, To)

https://areeweb.polito.it/ricerca/micronanotech/main-page

Research activities in the field of Micro and Nano technologies. Design and fabrication and testing of MEMS, Lab on Chip and microfluidic devices. Investigation on nanomaterials and their application in sensors. Development of innovative technology processes.

ORCID 0000-0003-4570-2674, H index = 16, 751 citations (source: Scopus)

Institute: Istituto dei Materiali per l'elettronica ed il Magnetismo (IMEM) - Area delle Scienze, 37a, 43124, Parma. C/O Dipartimento di Scienza Applicata e Tecnologia, Politecnico, Corso Duca degli Abruzzi 24, 10129, Torino

01/01/2013–31/12/2013

Post Doc fellow

Politecnico di Torino, Torino (Italy)

Corso Duca degli Abruzzi, 24 IT-10129 Torino (Italia)

Research activities in the field of Micro and Nano technologies. Design and fabrication of MEMS, Lab on Chip and microfluidic devices. Development of innovative technology processes.

01/08/2011–31/12/2012

R&D engineer

Trustech SRL
C.so Re Umberto, 30 IT-10128 Torino (Italy)

Research and development in the Micro and Nano Technology field.

01/01/2010–31/07/2011

Post Doc fellow

Politecnico di Torino
Corso Duca degli Abruzzi, 24 IT-10129 Torino (Italy)

Research activities in the field of Micro and Nano technologies. Design and fabrication of MEMS, Lab on Chip and microfluidic devices. Development of innovative technology processes.

01/01/2006–31/12/2009

PhD student

Politecnico di Torino
Corso Duca degli Abruzzi, 24 IT-10129 Torino (Italia)

Design and fabrication of MEMS, genetic Lab on Chip and microfluidic devices. Development of innovative technology processes.

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01/01/2009–31/12/2014

Teaching experience

· PhD course of “Design of devices” PON project 40 hours of frontal Didactics year 2014

· University Physics course (module 2) assistant with University professor Carla Buzano of the Physical department of the Polytechnic of Turin: 8 of exercises in laboratory year 2009-2010;

University Physics course (module 1) assistant with University professor Rita Claudia Iotti of the Physical department of the Polytechnic of Turin: 16 hours of frontal Didactics and 24 of exercises in laboratory year 2009-2010

EDUCATION AND TRAINING

01/01/2006–31/12/2009

PhD doctorate in “Electronic Devices”

Politecnico di Torino, Torino (Italy)

01/10/2003–01/10/2005

Master Degree in Biomedical Engineering, mark 110/110 cum laude

Politecnico di Torino, Torino (Italy)

01/09/2000–01/09/2003

Bachelor Degree in Biomedical Engineering, mark 110/110 cum laude

Politecnico di Torino, Torino (Italy)

PERSONAL SKILLS

Mother tongue(s): Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C2	C2
	Preliminary English Test - pass with merit				

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages - Self-assessment grid

Communication skills

- good communication skills gained through my research and didactic activities in order to collaborate with colleagues team and students

Organisational / managerial skills

- leadership skills, currently responsible for a research team of 5 PhD students and a PhD post doc under my direct supervision for the laboratory activities.
- leadership skills gained in managing project research activities
- Leadership skills gained in personal experiences as president of a not-profit association for the local tourism promotion of the country
- good team-leading skills gained as team leader of the research activities of multidisciplinary researchers group in different projects
- good organizational skills gained during the research activities and also gained as local volunteer a not-profit association for the local tourism promotion of the country

Job-related skills

Clean room facilities
Process and technological experience over 8 years in clean room facilities:

- Microlithography;
- SU-8 and liga like processes
- Dry etching:
- Deep Reactive Ion Etching;

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- Electro-deposition;
- Wet etching.

Software

- Os: Windows, Mac OS, Linux.
- programming language: C, MatLab script.
- CAD and finite elements software: Ansys, Rhinoceros, Matlab & Simulink, Hipermesh, COMSOL;
- Microsoft Office: Word, Excel, Power Point, Access;
- Others: Matlab, Origin, photoshop, adobe illustrator.

Characterization facilities

- Microprofilometry;
- optical microscopy;
- FTIR and micro FTIR spectroscopy

ADDITIONAL INFORMATION

Publications

Co-author of more than 60 scientific paper (11 publications as first Author or submitting Author, and 4 as last Author) and patents covering different fields related to Lab on a Chip, micro and nano-technologies, materials, sensors and bio-sensors, engineering, chemistry, physics (see the list of publications and patents in annex 1)

Conferences

Participation as presenting Author at several national and international conferences between 2007 and 2019 (see the list congress participation in annex 2)

Projects

- Involved in research activities in EU actions COST MP1106 “Smart and green interfaces—from single bubbles and drops to industrial, environmental, and biomedical applications”.
- Involved in research activities in EU COST CM1101 “Colloidal aspects of nanoscience for innovative processes and materials” and COST MP1305 “Flowing Matter”.NEWTON (Advanced nanosystems for a new era in molecular oncology) funded by MIUR (Italian Ministry for Education, University and Research) grants – FIRB 2012–2016.
- Manager of the project for Politecnico di Torino and involved in research activities in “LOCFORCELL”, POR-FESR 07/13 fund, in collaboration with TST srl, il Politecnico di Torino and University of Torino.
- Involved in research activities in European MANUNET ERA-Net Project “AUDAX - Automation of a Device based on APEX technology” from 01-01-2009 to 30-05-2014.
- Involved in research activities in NEWTON (Advanced nanosystems for a new era in molecular oncology) funded by MIUR (Italian Ministry for Education, University and Research) grants – FIRB 2012–2016
- Involved in research activities in National Project named FIRB Laboratorio Nazionale LATEMAR (FIRB 2003-2004) from 03-11-2005 to 03-11-2008.
- Involved in research activities in Converging Technologies" Progetto numero 48 "PHOENICS" from 30-04-2009 to 31-07-2011.

Technology transfer

- Involved in the development of the patent for Microla SRL WO2014020566 "MEASUREMENT SYSTEM HAVING AN OSCILLATING STRUCTURE"
- Involved in the development of the patent for Ribes SRL s"MICROSWITCH PIEZOELETTRICO, IN PARTICOLARE PER APPLICAZIONI INDUSTRIALI"
- Involved in the development of the patent for Trustech SRL “PORTABLE KIT FOR AUTOMATED IMMUNOENZYMATIC ASSAYS”, n. WO2018015931

Editorial experience

- Involved in editorial committee for the MPDI Journals (Basel)
- Reviewer for more than 15 scientific Journal in the field of micro and nano technologies, materials, physics, chemistry, engineering, biomedical.

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