PERSONAL INFORMATION   Luca Aluigi

Profile A proactive and enthusiastic individual with expertise in integrated circuits and systems design. Has creativity and vision to initiate new ideas and implement innovative approaches. Versatile and adaptable, has calm and methodical approach to problem solving. Has management and communication skills developed thanks to his multisector experience.

Sex Male

Date of birth 07/08/1978

Nationality Italian

WORK EXPERIENCE

Sep. 2014 - Present

Marie-Curie Post-doc Researcher

Tyndall National Institute, Theory Modelling & Design Centre, Cork, Ireland

▪ Microwave/millimeter-wave IC design in SiGe BiCMOS technology
▪ EU commission funded FLARES project (FP7-PEOPLE-2013-IEF, Grant 625907)

Business or sector   Integrated circuits and systems design

Sep. 2013 - Aug. 2014

Program Management Trainee

Cadence Design Systems, Feldkirchen, Munich, Germany

▪ Run and leverage relationships and collaborations with research institutes and universities
▪ Create new business models to bridge the gap between academia and industry
▪ Access the network of professors to get recommendations for top talents

Business or sector Semiconductor CAD

Feb. 2013 - July 2013

Design Services Engineer

RFMD (UK) Ltd, Newton Aycliffe, Co. Durham, United Kingdom

▪ Design services support for the MMIC design team. Responsible for assisting the development and maintenance of MMIC Design-Kits, providing support and working closely with engineers and managers working within agreed timescales and objectives;
▪ Driving improvements in modelling techniques and test capability. Supporting new process and products development;

Business or sector Semiconductor wireless circuits and RF components manufacture

Jan. 2012 - Jan. 2013

Design Engineer

University of Perugia, Department of Information and Electronic Engineering, Perugia, Italy

▪ Post-doc design activity within the European research project ARTEMOS: Agile RF Transceivers and Front-Ends for Future Small Multi-Standard Communications Applications;
▪ Software and models development for inductors and transformers design automation using Agilent ADS 2009, Ansoft HFSS 13, Cadence Virtuoso 6.1.5

Business or sector MMIC design

Apr. 2012 - Jan. 2013

Design Engineer

Albanova s.r.l., Citta' di Castello, Perugia, Italy

▪ Electrical design of photovoltaic plants with peak power ranging from 1 MW (ground plants) to 200 kW (rooftop plants).

Business or sector Photovoltaic plants construction

EMPLOYMENT DURING EDUCATION

Jan. 2010 - Sep. 2010

Engineering Tutor

Rener s.r.l., Sansepolcro, Italy

- Technical tutor for the SKY (Italy) Ltd. technicians training programme. Topics: fiber optics, digital terrestrial and satellite TV systems, distribution, networks.

Business or sector Technical training

Sep. 2008 - Dec. 2008

Project Coordinator

Iris Display s.r.l., Marsciano, Italy

- Coordination of the technical development of touch-screen panel-pc for bio-medical applications.

Business or sector Electronic systems production

EDUCATION AND TRAINING

Jun. 2011 - Dec. 2011

Fulbright Alumnus

Georgia Tech Institute, GEDEC (Georgia Electronic Design Centre), Atlanta, GA, USA

- Winner of a Fulbright VSR Scholarship;
- Activity: Heterogeneous integration of MMIC and antennas on LCP substrate through a contactless approach, for imaging applications;
- Supervisor: Prof. Manos M. Tentzeris.

Nov. 2008 - Oct. 2011

PhD Degree in Information Engineering

University of Perugia, Department of Information and Electronic Engineering, Perugia, Italy

- Thesis title: "Development of mm-wave SiGe BiCMOS SoC space-based radiometers";
- Viva date: 2 February 2012;
- Advisors: Dr. Federico Alimenti, Prof. Luca Roselli.

Nov. 1997 - Jul. 2008

Master's Degree "Laurea Magistrale" in Electronics Engineering

University of Perugia, Department of Information and Electronic Engineering, Perugia, Italy

- Thesis title: "24 GHz Doppler radar for traffic control. Design of the I/Q mixer in 0.25 um SiGe BiCMOS";
- Viva date: 18 July 2008;
- Advisors: Prof. Federico Alimenti, Prof. Luca Roselli.

Sep. 1993 - Jul. 1997

High School Diploma

Liceo Classico "Plinio il Giovane", Citta' di Castello, Italy

PERSONAL SKILLS

Mother tongue   Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English*	B2	C1	B2	B2	B2
German	A1	A1	A1	A1	A1
	*FCE Certificate obtained from British Academy in March 2007.				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

| Communication skills | Very good communication skills developed through experiences in different technical and non-technical areas, including working in the cultural field and communication with disabled people or in emergency situations, acquired in numerous volunteer activities and social services. |

| Organisational / managerial skills | Excellent organisational and managerial skills, which can be inferred by the following activities:
▪ From Sept. 2013 to Aug. 2014 I worked in the Cadence Academic Network department of Cadence Design Systems. Thanks to the activity undertaken as Program Management Trainee I acquired organisational and managerial skills needed to work in a high-end industrial environment.
▪ From 2004 to 2014 I have been the project manager of the Alive Music Festival (http://www.alivemusicfestival.it) which consisted in approximately four events (music, theatre and exhibitions) per year, in various locations in central Italy. The festival was organized on behalf of the "Altotevere Live" non-profit cultural association, based in Citta' di Castello, Italy. I mainly coordinated the technical and logistic staffs, composed of about 20 people. |

| Job-related skills | Very good ability to approach to technology:
▪ Use of measurements lab. tools (PNA-X, spectrum analyser, etc.);
▪ Good knowledge of HTML, PHP, Java, VBS and C/C++ languages, database management, SQL code, Visual Basic;
▪ Web design and management. |

| Computer skills | Excellent computer skills on both Win and Mac and Linux systems:
▪ Electronic and electromagnetic CAD: Cadence Virtuoso, PVS, QRC, Agilent/Keysight ADS 2006a-2016, ADS-Momentum, Keysight EMpro, Ansoft HFSS 11,12,13, AWR Microwave Office 2010-2012, AWR EmSight, CST Microwave Studio;
▪ Matlab, Mathematica, Origin Pro;
▪ Operating systems and software suites: Linux Ubuntu, CentOS, Red Hat, MS Windows 98, 2000, XP, Vista, W7, W8, W10, MAC OSX, MS Office (Word, Power Point, Excel, Access, Visio). |

| Other skills / Interests | ▪ From 1986 to 1992 I attended courses in music theory, piano and chamber music at the Municipal School of Music in Citta' di Castello;
▪ In 1996 I took a course in percussion and drums of the Master Massimo Manzi at the CPM in Milan;
▪ I participated as a drummer with some musical projects, including one called "Robert Mancini", landed in the finals of Arezzo Wave Contest in 2007 with the original songs which I helped create;
▪ I enjoy listening to music, playing tennis, reading, biking and travelling. |

| Driving licence | ▪ European/Italian A, B. |

ADDITIONAL INFORMATION

| Professional memberships | ▪ Member of the Register of Italian Professional Engineers, n. A3460 (Perugia Province);
▪ IEEE Member n. 90539596. |

| Publications | ▪ http://scholar.google.it/citations?user=0ljOsjYAAAAJ&hl=en |