

PERSONAL INFORMATION **Marco Diomede**



EDUCATION AND TRAINING

- 2016 -2019 **Ph.D. in Accelerator Physics** EQF level 8

Sapienza University of Rome

  - Focused on design of high gradient structures and RF systems for high brightness electron linacs
  - Main courses: Longitudinal and transverse beam dynamics in Circular Accelerators, JUAS (Joint Universities Accelerator School): Particle Accelerator Science course, Physics of High Brilliance Accelerators
- 2012 - 2016 **Master's degree in Electronics Engineering (110/110 with honors)** EQF level 7

Sapienza University of Rome

  - Focused on design of high frequency devices and systems
  - Main courses: Integrated systems architectures, Advanced electromagnetics, Microwaves, Microwave circuits, Microwave measurements, Electromagnetic compatibility, Laboratory of high frequency measurements, Antennas and radar meteorology, Optics, Bioelectromagnetic interaction, Accelerators
  - Master's Thesis: "Experimental characterization of a piezoelectric actuator in electromechanical PLLs for femtosecond synchronization in plasma-based particle accelerators"
- 2006 - 2012 **Bachelor's degree in Electronics Engineering (105/110)** EQF level 6

Sapienza University of Rome

  - Main courses: General physics, Digital electronics, Antennas, Electric measurements, Electromagnetic fields, Electronics
  - Bachelor's Thesis: "Design of a capture and transport channel for electron beams accelerated by means of laser - plasma interaction "
- 1999 - 2004 **Industrial expert – Electronics and Telecommunications (90/100)** EQF level 4

I.T.I.S. "Albert Einstein" of Rome

WORK EXPERIENCE

- November 2016 - **Technological associate**

INFN

  - Association related to my PhD activity

**Business or sector** Research
- September 2016 – **Private tutor**

  - Private lessons for high\*school and university students

**Business or sector** Teaching





March 2005 – September 2015

**Labourer**

- Occasional work at construction sites

**Business or sector** Building

June 2005 – January 2006

**Insurance advisor**

- Insureds management

**Business or sector** Insurance

September 2005 – December 2005

**Delivery man**

- Delivery of radios for guided tours and technical assistance

**Business or sector** Tourism

**PERSONAL SKILLS**

**Mother tongue(s)** Italian

**Other language(s)**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B1	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

**Communication skills**

- Good communication skills gained during my work and university experience

**Organisational / managerial skills**

- Good organisational skills gained during my work experience

**Digital competence**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Basic user	Proficient user	Independent user

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

- Good command of office suite (word processor, spread sheet, presentation software)
- Good knowledge of VHDL, MATLAB, C
- Good command of HFSS, Microwave Office, ModelSim, 4nec2, TRACE 3-D, TStep

**Electronics/Measuring Instruments**

- Good command of Network analyzer, Spectrum analyzer, Signal generator, Power meter, Digital multimeter

**Driving licence** B

**ADDITIONAL INFORMATION**

**Projects**

- I am directly involved in the RF design of the X-Band linac for the INFN-LNF EuSPARC/EuPRAXIA@SPARC\_LAB proposals





- Workshops**
- "International Workshop on Breakdown Science and High Gradient Technology (HG2017)" – 13-16 June 2017 in Valencia, Spain (poster)
  - "3<sup>rd</sup> European Advanced Accelerator Concepts Workshop (EAAC2017)" – 24-30 September 2017 in La Biodola, Isola d'Elba, Italy (poster)
- Courses**
- JUAS (Joint Universities Accelerator School): Particle Accelerator Science course at ESI (European Scientific Institute), from January 9<sup>th</sup> to February 9<sup>th</sup> 2017 in Archamps, France
- Personal details**
- In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.



