



Marco Ciampolini

Date of birth: 29/04/1989 | **Nationality:** Italian | **Gender:** Male | (+39) 3420388142 |

marco.ciampolini@unifi.it | marco.ciampolini1@ingpec.eu | www.rease.unifi.it |

Skype: marco.ciampolini89 |

Via Giovanni Fattori, 33, 50053, Empoli, Italy
Via Vittorio Emanuele. 32, Laboratorio LINEA, 50041, Calenzano, Italy

● WORK EXPERIENCE

07/2011 – 08/2014 – Empoli, Italy

TECHNICAL EMPLOYEE – CIS INTELLIGENT SYSTEMS SRL

- ICT devices
- electrical systems
- business & management

Information and communication | Via Luigi Pirandello 40/a, 50053, Empoli, Italy

12/2008 – 06/2011 – Empoli, Italy

APPRENTICE – CIS INTELLIGENT SYSTEMS SRL

- ICT devices
- TCP/IP protocol
- electrical systems

Information and communication | Via Luigi Pirandello, 40/a, 50053, Empoli, Italy

● EDUCATION AND TRAINING

11/2018 – CURRENT – Laboratorio LINEA, Università degli Studi di Firenze, Via Vittorio Emanuele 32, 50041, Calenzano, Italy

PH.D. STUDENT IN SMART INDUSTRY – Università di Pisa - Facoltà di Ingegneria

- internal combustion engines
- hybrid powertrains for marine propulsion
- EVs and HEVs
- electric machines
- active noise reduction
- management of industrial processes

EQF level 8 | <https://www.rease.unifi.it/>

05/2019 – CURRENT – Viale Milton 65, Firenze, Italy

ENROLMENT IN THE ITALIAN REGISTER OF ENGINEERS, INDUSTRIAL FIELD – Ordine degli Ingegneri della Provincia di Firenze

<https://www.ordineingegneri.fi.it/>

10/2018 – 02/2019 – P.zza S.Marco, 4, Firenze, Italy

PROFESSIONAL PRACTICE EXAMINATION IN INDUSTRIAL ENGINEERING – Università degli Studi di Firenze

212/240

04/2013 – 10/2018 – Via di Santa Marta, 3, Florence

MASTER DEGREE IN ENERGY AND NUCLEAR ENGINEERING – Università degli Studi di Firenze - Facoltà di Ingegneria

- internal combustion engines
- fluid dynamics and turbomachinery
- heat transfer and combustion in gas turbines
- electrical machines
- computer aided design
- energy management in industrial plants
- power and cogeneration plants
- renewable energies and fuel cells
- energy environment and thermoeconomy

110/110 cum Laude | Design and CFD analysis of a prechamber for use in a direct-injection two-stroke engine |

EQF level 7 | www.ingegneria.unifi.it

09/2008 – 03/2013 – Via di Santa Marta, 3, Florence, Italy

BACHELOR DEGREE IN MANAGEMENT ENGINEERING – Università degli Studi di Firenze - Facoltà di Ingegneria

- mathematical and numerical analysis
- principles of mechanics
- principles of electrical sciences
- technical physics and energy systems
- industrial plants and manufacturing processes
- business organization and management
- operation research and system theory
- industrial safety and labour law
- quality management and logistics

110/110 cum Laude | Absorption Heat Transformers: components and technologies | EQF level 6 |

www.ingegneria.unifi.it

09/2003 – 07/2008 – Via Raffaello Sanzio, 159, Empoli, Italy

SCIENTIFIC HIGH SCHOOL DIPLOMA – Liceo Scientifico "Il Pontormo"

80/100 | EQF level 4 | <http://www.ilpontormoempoli.edu.it/>

● LANGUAGE SKILLS

Mother tongue(s): ITALIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

GT-Suite | MATLABSimulink | Ansys Fluent | Altair Hyperworks | SolidWorks | labVIEW | GIMP - GNU Image Manipulation Program | Microsoft Office (Word Excel PowerPoint Visio Project)

● PUBLICATIONS

Publications

- Ciampolini, M.; Bigalli, S.; Balduzzi, F.; Bianchini, A.; Romani, L.; Ferrara, G. CFD Analysis of the Fuel–Air Mixture Formation Process in Passive Prechambers for Use in a High-Pressure Direct Injection (HPDI) Two-Stroke Engine. *Energies* 2020, *13*, 2846. doi: 10.3390/en13112846.
- M. Ciampolini, L. Fazzini, L. Berzi, G. Ferrara and L. Pugi, "Simplified Approach for Developing Efficiency Maps of High-Speed PMSM Machines for Use in EAT Systems Starting from Single-Point Data," *2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)*, Madrid, Spain, 2020, pp. 1-6, doi: 10.1109/EEEIC/ICPSEurope49358.2020.9160775.
- Bosi, L., Ciampolini, M., Romani, L., Balduzzi, F. et al., "Experimental Analysis on the Effects of Passive Prechambers on a Small 2-Stroke Low-Pressure Direct Injection (LPDI) Engine," SAE Technical Paper 2020-32-2305, 2020, <https://doi.org/10.4271/2020-32-2305>.

● DRIVING LICENCE

Driving Licence: A

Driving Licence: B

● PROJECTS

04/2019 – CURRENT

Supervisor of the Firenze Race Team, Costs & Business division

Università degli Studi di Firenze, Formula SAE Team
Via di Santa Marta 3, 50139 Florence (Italy)
www.firenzerace.it

Awards: *4th place Cost Event Formula Italy 2019 - Class 1C*

● CERTIFICATIONS

02/2020

Academic writing and presentation skills - Level C1+

Centro Linguistico (CLI) - Università di Pisa (<https://www.cli.unipi.it/>)
Via Santa Maria 36, 56126 Pisa (Italy)

04/2019

Academic writing and presentation skills - Level C1

Centro Linguistico (CLI) - Università di Pisa (<https://www.cli.unipi.it/>)
Via Santa Maria 36, 56126 Pisa (Italy)

08/2018

Written and oral comprehension - Level B2

Centro Linguistico di Ateneo (CLA) - Università degli Studi di Firenze
Via degli Alfani, 58, 50121 Firenze FI

● COURSES

11/2020 – 12/2020

Europrogettazione

Advanced Training course of the *Tuscan Start Up Academy 4.0* project
Università degli Studi di Firenze

01/2020 – 09/2020

XVIII Ciclo di pre-incubazione

Advanced training course in Start-Up Management
Incubatore Universitario Fiorentino
Università degli Studi di Firenze

06/2020

A Smart Grid for Energy Management: the IoT approach

Intensive School for Advanced Graduate Studies
Università di Pavia

01/2020

Smart Service Design: design thinking, lean startup and agile management

Advanced training course of the *Tuscan Start Up Academy 4.0* project
Università degli Studi di Firenze

10/2019 – 12/2019

Academic writing and presentation skills - Level C1+

Centro Linguistico (CLI)
Università di Pisa

06/2019 – 07/2019

Industria 4.0 a 360°

Advanced Training course of the *Tuscan Start Up Academy 4.0* project
Università degli Studi di Siena

05/2019 – 06/2019

Business Process Optimization in Industry 4.0

Advanced Training course of the *Tuscan Start Up Academy 4.0* project
Università di Pisa

01/2019 – 03/2019

Academic writing and presentation skills - Level C1

Centro Linguistico (CLI)
Università di Pisa

12/2018

Enabling CAS Technologies for Industrial IoT at the Core of Industry 4.0

Advanced training course of the IEEE CAS school
Università di Pisa

● OTHER SKILLS

2018 – CURRENT

First aid: AED operator certificate

2006 – CURRENT

Sport: Competitive tennis activity

Ranking (2021): 3.1

Affiliation (2021): ASD Fiesole Tennis

Hobbies: Motorbikes, Electrical systems, Home automation
