

# Europass Curriculum Vitae

Updated  
December 11, 2018



## Personal information

Surname / First name

Address

Telephone

Personal Email

Nationality

Date of birth

Gender

Bio

### Buracchi Marco

95, Via Pier Capponi, 50132, Firenze (FI), Italy

+39 3498362954

Personal: [ma.buracchi@gmail.com](mailto:ma.buracchi@gmail.com)

PEC: [marco.buracchi@postecert.it](mailto:marco.buracchi@postecert.it)

Italian

19/12/1985

Male

In September 2012 I decided to enroll myself at the University of Florence to pursue my true passion; computer science and cybersecurity. I graduated in October 2018 with 110/110 cum laude at the master's degree in resilient and secure cyber physical systems. My master thesis was on "*Side-Channel Attacks and speculative execution*". Before, I obtained the bachelor degree in computer science in 2015 with 110/110 cum laude. Next year I will attend a first-level professional master in Cybersecurity provided by University of Pisa. From November 2018 I'm private tutor at Centro Didattico Matemagia in Florence.

## Desired employment/ Occupational field

### Cybersecurity, Software Development & Research

## Education and training

Dates

Title of qualification awarded

Principal subjects/

Occupational skills covered

Name and type of organization  
providing education and training

Dates

Title of qualification awarded

02/2019 - 03/2020 (expected)

First-level Professional Master's Programmes in cybersecurity

Applied Cryptography and Access Control, Network Security & Ethical hacking, Operating Systems Security, Digital Forensics, Cyber Intelligence, Mobile and cloud security, Legal aspects of cybersecurity, Secure system configuration, device hardening and firewall management, Risk monitoring for networks and applications, Secure application development (network, mobile, cloud)

Expert in security analysis of applications and IT systems, expert in cyber attacks analysis

University of Pisa

01/10/2015 - 12/10/2018

Master's degree (Laurea Magistrale) in Resilient and Secure Cyber Physical Systems

Principal subjects/Occupational skills covered	Security engineering, Security and network management, Distributed programming for IoT, Multivariate analysis and statistical learning, Coding theory and computer security, Advanced techniques (and tools) for software development, Advanced topics in programming languages, Computer forensics, Models of sequential and concurrent systems, Quantitative analysis of systems, Real-time and critical systems, Systems modeling for verification, Advanced numerical analysis
Name and type of organization providing education and training	University of Florence, Faculty of Maths, Physics and Natural Sciences
Level in national or international classification	110/110 cum laude
Dates	08/08/2017 - 12/08/2017
Title of qualification awarded	Cornell, Maryland, Max Planck pre-doctoral research school
Principal subjects/Occupational skills covered	Security and privacy, social systems, distributed systems, machine learning, programming languages, and verification
Name and type of organization providing education and training	Max Planck institute for software systems, Cornell University, University of Maryland
Dates	01/10/2012 - 09/10/2015
Title of qualification awarded	Bachelor's Degree (Laurea Triennale) in Computer Science.
Principal subjects/Occupational skills covered	Algorithms and data structures, Calculus I and II, Computer architecture, Computer networks, Computing and management, Concurrent programming, Databases and information systems, Discrete mathematics and mathematical logic, Human-Machine interaction, Information retrieval and semantic web technologies, Interpreters and compilers, Linear Algebra, Numerical analysis, Operating systems, Physics, Probability theory and statistics, Programming methodologies, Theoretical computer science
Name and type of organization providing education and training	University of Florence, Faculty of Maths, Physics and Natural Sciences
Level in national or international classification	110/110 cum laude.

## Work experience

Dates	28/11/2018 - actually
Occupation or position held	Private tutor
Main activities	One-on-one tutoring at home for students from middle-school to university.
Name and address of employer	Centro didattico Matematica - Via Baracca 166, Firenze
Type of business or sector	Private education
Dates	01/04/2015 - 01/10/2016
Occupation or position held	Research helper
Main activities and responsibilities	I took part in AMADEOS project (Architecture for Multi-criticality Agile Dependable Evolutionary Open System-of-Systems) funded under the European Commission's FP7, supporting research in definition, implementation and evaluation of mechanisms and solutions for the resilient management of the time in the smart grid and smart cities.
Name and address of employer	Prof. Andrea Bondavalli, Resilient Computing Lab, Università di Firenze
Type of business or sector	Research and experimentation of dependable architectures and systems
Dates	01/05/2006 - 01/09/2012
Occupation or position held	CNC Machinist and Programmer
Main activities	AutoCAD drawing, CNC programming and cutting (laser cutting, machining center, wire EDM)
Name and address of employer	Nuova 230AR, Arezzo, Italy (01/05/2006 - 01/05/2008) Gabry packing, Arezzo, Italy (01/05/2008 - 01/09/2012)

Type of business or sector	Manufacturing industry
Dates	01/09/2004 - 01/05/2006
Occupation or position held	Technical employee
Main activities and responsibilities	Direct measurement in field, fixture designer, autoCAD drawing, cutting programs developer
Name and address of employer	Emmedi srl, Arezzo, Italy
Type of business or sector	Manufacturing industry

## Personal skills and competences

Mother tongue  
Other language(s)

*Self-assessment  
European level<sup>(\*)</sup>*

### English

Technical skills and competences

Computer skills and competences

Artistic skills and competences

Driving licence(s)

## Additional information

### Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

Good technical skills, especially in cybersecurity, system's safety, computer science

Very good computer skills, learned as self-taught and through the University. Very good knowledge in the use of various programming/markup languages (among the best known: Java, Python, C, Shell Scripting, Assembler, LaTeX, Matlab, R, XML). High expertise with many tools such as Maven, Github, virtualization tools, Docker, test-framework. High skills in managing both software and hardware aspects.

I studied piano at conservatoire for 4 years. I can play guitar. I love skiing and I'm a futsal goalkeeper for more than 10 years

Driver's license (Italian Republic, full European validity), category A (motorcycle owner) and B (car owner).

### References

Prof. Michele Boreale, University of Florence, Italy, michele.boreale(AT)unifi.it;  
Prof. Rosario Pugliese, University of Florence, Italy, rosario.pugliese(AT)unifi.it;  
Prof. Andrea Bondavalli, University of Florence, Italy, andrea.bondavalli(AT)unifi.it;

### Personal interests

Cybersecurity, Technology, Mathematics, Physics and Science in general. Books, Music and Entertainment. All kind of sports. Travelling around the world.

I hereby authorize the processing of the personal data contained in this CV in compliance with the Italian Personal Data Protection Code (Legislative Decree no. 196 of 30 June 2003 and GDPR 679/16 art.13)

Signature:

