

## curriculum vitae



### PERSONAL INFORMATION

Surname	<b>VONA</b>
Name	<b>FRANCESCO</b>
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Nationality	Italian
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Date of birth	21/01/1994
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<b>Education and training</b>	[Please describe the whole study path done]
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	Master course
• Date (from – to)	22/09/16 – 20/12/18
• Name and type of organisation providing education and training	University: POLITECNICO DI MILANO School: FACOLTA' DI INGEGNERIA INDUSTRIALE E DELL'INFORMAZIONE Course: LAUREA MAGISTRALE IN COMPUTER SCIENCE AND ENGINEERING - INGEGNERIA INFORMATICA
Duration of the program of study	2 years
• Principal subjects/occupational skills covered	<p>During my master's degree, I had the opportunity to compose a highly customized study plan, exploiting the solid basis acquired during the Bachelor's degree.</p> <p>I focused my master's degree on two main areas, Business Information Technologies and Interactive Applications.</p> <p>I found topics related to business and IT very interesting in order to have an overview of companies' main aspects nowadays. (courses: Business Information Systems 1-2, Process and Service Design, Business Process Management)</p> <p>The second one takes into account the whole process to build an application:</p> <ul style="list-style-type: none"><li>• project design at high level;</li><li>• implementation &amp; testing;</li><li>• interfaces' design.</li></ul> <p>(Courses: Advanced User Interfaces, Data Management for the Web, Multidisciplinary project, Software Engineering 2)</p>
• Title of qualification awarded	Engineer
Final mark obtained	104/110
	Bachelor course
• Date (from – to)	1/10/13 - 22/09/16

• Name and type of organisation providing education and training	University: POLITECNICO DI MILANO School: FACOLTA' DI INGEGNERIA INDUSTRIALE E DELL'INFORMAZIONE Course: LAUREA DI PRIMO LIVELLO IN INGEGNERIA INFORMATICA
Duration of the program of study	3 years
• Principal subjects/occupational skills covered	The three years of bachelor have provided me with a complete preparation for the computer science field. The Software Engineering 1 course in which we had to translate a board game in digital format was very formative
• Title of qualification awarded	Engineer
Final mark obtained	89/110
	High school
• Date (from – to)	2008 -2013
• Name and type of organisation providing education and training	High school: LICEO PIETROBONO (ALATRI - ITALIA) Tipo Maturità: Scientifica Final mark:
Duration of the program of study	5 years
• Principal subjects/occupational skills covered	I chose the scientific high school because I always have had an intrinsic affinity with scientific subjects. Even the most classical subjects were profoundly formative as they helped me to develop a more mature sensibility
• Title of qualification awarded	High school diploma
Final mark obtained	100L/100

### graduation thesis

Title	Improving trust in smart logistics with blockchain: an explorative study
Language	English
Supervisor	PLEBANI PIERLUIGI
Thesis Summary	The monitoring of business processes has become increasingly complex nowadays, since processes no longer occur within a single organization but involve multiple parties. In the field of smart logistics, there are several solutions that tackle the problem of monitoring the whole supply-chain with discrete results. In this context, artifact driven monitoring is presented as an innovative solution that moves the monitoring phase directly on the objects involved during the process, thanks to the use of Internet of Things (IoT), allowing a flexible and scalable monitoring platform. Despite the efforts a problem remains open: how to establish a relationship of trust between the objects involved in the process as they could be counterfeited by a party to hide misbehaving. This problem can be addressed through the employment of a new technology: the blockchain. Thanks to its properties, the blockchain can offer a distributed environment in which the smart objects involved can record and track all the status changes of the objects involved in the multi-party process according to the artifact-driven approach. In this thesis an exploratory study is carried out on the adoption of blockchain in the field of smart logistic, proposing three different solutions to tackle the problem of trust taking as a model a process belonging to the field of logistics and as a monitoring platform the artifact-driven monitoring. The solutions have been implemented and tested in order to obtain useful data regarding the economic impact of the above and the writing times on the blockchain.

<b>publications and articles submitted</b>	[Articles in journals and at scientific conferences, books, essays, published and award-winning competition projects, etc. ] [Enclose as attachments the most significant (maximum 2)]
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Author(s) and title	Franca Garzotto, Emanuele Torelli, Francesco Vona, Beatrice Aruanno. HoloLearn - Learning through Mixed Reality for People with Cognitive Disability
Language	English
Publication place	2018 IEEE International Conference on Artificial Intelligence and Virtual Reality (AIVR)
Date of publication	17 January 2019
Author(s) and title	Franca Garzotto, Emanuele Torelli, Francesco Vona, Beatrice Aruanno. HoloLearn - Wearable Mixed Reality for People with Neurodevelopmental Disorders (NDD).pdf
Language	English
Publication place	ASSETS '18 Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility
Date of publication	2018-10-08

<b>certifications</b>
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Certifications of language knowledge	TOEIC - Listening and Reading Test Date: 31/03/2016 Mark: 840/990
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<b>Work experience, stages, studies abroad</b>
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• Date (from – to)	1/02/19 – 1/05/19
• Name and address of firm/university	Politecnico di Milano
• Type of business or sector	Computer science
• Type of employment	Research Assistant
• Main activities and responsibilities	In my work I'm in charge of the VR & MR topics. My focus is on an European project called TWB: Therapeutic services based on Wearable VR and Biosensors, funded by EIT in which Politecnico is involved together with other two important companies: REPLY and IMEC. I'm in charge to deploy VR and MR applications and make them available as therapeutic services.
• Date (from – to)	1/05/19 – now
• Name and address of firm/university	Politecnico di Milano
• Type of business or sector	Computer science
• Type of employment	Ph.D on Computer Science and Engineering
• Main activities and responsibilities	In my work I'm in charge of the VR & MR topics. More in details, my research focuses on shared experiences where more users share the same virtual or real environment. Moreover I'm continuing working on EIT Project. I'm in charge to deploy applications and make them available as therapeutic services.

**Personal skills and competences**

*Acquired in the course of life and career but not necessarily evidenced by formal certificates and diplomas.*

Mother tongue

Italian

Other language(s)

**English**

• reading

B2

• writing

B2

• speaking

B2

**Social skills and competences**

*Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (e.g. Culture and sports), etc.*

Good communication and relational skills thanks to different experiences in university involving team work.

Particularly formative was the experimentation in a disability center carried out for an application developed by me

I believe that a continuous communication among the colleagues, concerning the partition of work, is unavoidable as well as the ability to interface themselves with the public, the insiders and the concurrency.

**Organisational skills and competences**

*E.g. coordination and management of people, projects and budgets; at work, in voluntary work (e.g. culture and sports) and at home, etc.*

I reckon to be able to manage my time in a very efficient and effective way. In my work I need to coordinate many things: meetings, experimentations, code deployment, research.

The university brought me to develop several transferrable skills, like the strict respect for deadlines, an important flexibility and ability to adapt myself to deeply different topics.

**Technical skills and competences**

*With computers, specific kinds of equipment, machinery, etc.*

I'm a mac user but I'm familiar with all operating systems.

- Programming languages: C, C#, Java, Python, client-side JavaScript: event-handling, Ajax and Json server-side JavaScript like Node, Express. Advanced JavaScript frameworks like React, Angular, Solidity
- Frontend web development: Html, CSS
- DBMS: MySQL
- MongoDB database
- Frameworks: Android Studio, Unity
- Graphic design: Adobe Photoshop

The experience with Java allowed me to learn, beyond the Java itself, the main concepts of Object-Oriented Programming, that are easily replicable in other contexts.

Good level of use of the Microsoft Office package

**Artistic skills and competences**

*Music, writing, drawing etc.*

I played the bass during my high school years. I was member of a rock band called "Mothership". We were a Led Zeppelin cover band.

I'm a sporty person and I like outdoor activities

I love traveling

**Additional information**

In the Advanced User Interface course I deployed an application for Hololens, the Microsoft

	<p>mixed reality device, to support user with neurodevelopmental disorders and help them to get more autonomy in their everyday life.</p> <p>In Data Management for the Web and the Multi-disciplinary project I worked in team to deploy an application for cystic fibrosis patients. The application was thought from scratch and with my group we went through a whole co-design process with the end users.</p> <p>Currently I've submitted a paper for BPM2019 conference</p> <p>Title: Trusted Artifact-driven Process Monitoring with Blockchain: a Cost-driven Solution</p> <p>Author: Pierluigi Plebani, Giovanni Meroni, Francesco Vona</p>
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