

## PERSONAL INFORMATION

## Marco Mengoli



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Date of birth 7 Nov 1989 | Nationality Italian

## PREFERRED JOB

## .NET Software Engineer

## WORK EXPERIENCE

Mar 2017–Present

## Software Engineer

IMA S.p.A., Ozzano dell'Emilia (Italia)

*Design and development of:*

- both *front-end* and *back-end* components of a *real-time charting infrastructure* for SCADA systems, consisting of a modular and configurable *plug-in architecture* to integrate and aggregate model data from *different sources*, as well as to plot charts within a web browser.
  - **Technologies:** D3.js, JavaScript, HTML 5, CSS 3, SVG, C#, NUnit, Moq, SignalR, SQL Server, OPC DA/UA, Git, Windows
- *Human Machine Interfaces* to manage automatic machines for pharmaceutical production.
  - **Technologies:** iFix (General Electrics), XIMA (IMA), SQL Server, SQL Server Reporting Services, C#, NUnit, VB, Talend Open Studio, Git, Windows
- *compilers* and *utilities* for custom languages dedicated to automating PLC workflows , based on B&R Automation Studio framework and ST language (IEC 61131-3).
  - **Technologies:** C#, ANTLR 4, NUnit, Moq, Git

Sep 2016–Mar 2017

## Internship for Master's Thesis

IMA S.p.A., Ozzano dell'Emilia (Italy)

*Design and development of:*

- a *Single Page Application* and its underlying REST API to collect and manage both data and settings for Human Machine Interfaces operating automatic pharmaceutical machines.
  - **Technologies:** C#, ASP.NET Core, React.js, ES 6, Jasmine, HTML 5, CSS 3, Bootstrap, Git, NUnit, SQL Server
- a *custom programming language*, as an extension of StructuredText (IEC61131-3), to provide a more concise and deployable PLC codebase.
  - **Technologies:** C#, ANTLR 4, NUnit, Moq, Git

Mar 2014–Sep 2016

## Software Engineer - Volunteering in Research Projects

University of Bologna, Engineering department, DICAM (Dipartimento Ingegneria Civile Ambientale e dei Materiali), Bologna (Italy)

- *Concept design* and *prototyping* of software systems enabling remote GPS monitoring, to replace high-end components with *low-cost platforms* such as Raspberry PI.

- **Technologies:** Python, Bash, Serial interfaces, Linux
- Computer application for *planning routes* in a solar-powered car world race.
- **Technologies:** C++, Python, Excel

Jun 2008–Present

**Audio/Video Specialist**

Studio DM, Castel San Pietro Terme (Italia)

- *Video services* for live events: video direction, live graphics, recording, editing, projection, live streaming and broadcasting.
- **Technologies:** Final Cut Pro, Motion, Edius, Photoshop, OBS, HTML, CSS, ES 6, React, D3, Github, C#, ASP.Net Core, SQLite, Windows, Mac, Linux, Camcorders and Digital Video Broadcast hardware
- *Audio and light operator* for live events

## EDUCATION AND TRAINING

Sep 2014–Mar 2017

**Master's Degree - Computer Engineering**

EQF level 7

University of Bologna, Engineering department, Bologna (Italia)

Masters's Thesis in Real Time Systems, carried out at *IMA S.p.A.* **110/110 with honors.****Main courses:**

- Software Systems Engineering
- Computer Vision & Image Processing
- Operations Research
- Artificial Intelligence
- Optimization Algorithms
- Computational Models and Languages
- Mobile Systems
- Real-Time Systems
- Operating Systems
- Information Security
- Innovation and Project Management
- Protocols and Architectures for Space Networks

Sep 2008–Mar 2014

**Bachelor's Degree - Computer Engineering**

EQF level 6

University of Bologna, Engineering department, Bologna (Italy)

Bachelor's Thesis in *Applied Mathematics*, carried out at *DICAM department*.*Design and development* of C++/QT software to simulate the quality of GNSS geolocalization systems (GPS, GLONASS, GALILEO and prototypes) on urban landscape, using digital terrain models. **101/110****Main courses:**

- Imperative Programming: C
- Object-Oriented Programming: Java, C#, C++
- Software Engineering
- Operating Systems: GNU/Linux
- Computer Networks

- Web Technologies: HTML, CSS, Javascript, AJAX, Servlet, JSP, J2EE
- Databases: SQL language, IBM DB2
- Electronics, Automatic Controls, Analog and Digital Communications

Sep 2003–Jun 2008

**High School - Accountant, Bookkeeper and Programmer**

EQF level 4

I.T.C.G. Paolini Cassiano, Imola (Italy)

Thesis on *web commerce*: implementation of an e-commerce website and analysis of methodologies for managing the warehouse. **100/100**

**Main courses:**

- Visual Basic 6, SQL, HTML4, CSS2, ASP
- European Computer Driving Licence
- Business administration
- Mathematics and financial mathematics
- Law and Economics
- Languages: English, German

PERSONAL SKILLS

Mother tongue(s)

Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
German	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Communication skills

Frequent *e-mail communication*, a few *conference calls* and *business trips* with customers and suppliers located in multiple countries.

*Training and mentoring* for colleagues.

Organisational / managerial skills

*Mentoring* and *leading* of operational teams consisting of 5 to 10 people involved in the activities of video production.

Basic experience in *organizing* and *chairing* meetings.

Job-related skills

Back-end and front-end experience in different abstraction layers: from C and Arduino to C# and ES6.

Driving licence

A1, A, B

ADDITIONAL INFORMATION

Honours and awards

"Pagella d'oro" 2007 : award as *best student* of the year at ITCG Paolini-Cassiano

"Daria Xella" Scholarship 2006: award as *best mathematics student* of the year at ITCG Paolini-Cassiano