



**Marco  
Mengoli**

**DATE OF BIRTH:**  
07/11/1989

## CONTACT

Nationality: Italian

Gender: Male



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## WORK EXPERIENCE

**05/2020 – CURRENT** – Zola Predosa, Italy

### Software Engineer

YOOX NET-A-PORTER GROUP

*Design and development of :*

- backend microservices in luxury and fashion e-commerce.
- **Technologies:**
- C#, ASP.Net core, NUnit, XUnit, Moq, Resharper
- SQL Server, MongoDB
- REST, GraphQL, RabbitMQ
- Git, Jenkins, Octopus, Docker
- Agile methodologies (mainly SCRUM) - Jira, Confluence, Bitbucket
- Extreme Programming practices - Test Driven Development, Pair-programming, CI/CD, Refactoring

**03/2017 – 05/2020** – Ozzano dell'Emilia, Italy

### Software Engineer

IMA S.p.A.

*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, 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).
- **Techologies:** C#, ANTLR 4, NUnit, Moq, Git

**09/2016 – 03/2017** – Ozzano dell'Emilia, Italy

### Internship for Master's Thesis

IMA S.p.A.

*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, 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.
- **Techologies:** C#, ANTLR 4, NUnit, Moq, Git

03/2014 – 09/2016 – Bologna, Italy

### Software Engineer - Volunteering in Research Projects

University of Bologna, Engineering department, DICAM  
(Dipartimento Ingegneria Civile Ambientale e d

- *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

06/2008 – 05/2020 – Castel San Pietro Terme, Italy

### Audio/Video Specialist

Studio DM

- *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

09/2014 – 03/2017 – Bologna

### Master's Degree - Computer Engineering

University of Bologna, Engineering department

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

EQF level 7

09/2008 – 03/2014 – Bologna, Italy

### Bachelor's Degree - Computer Engineering

University of Bologna, Engineering department

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
- Elettronics, Automatic Controls, Analog and Digital Communications

EQF level 6

09/2003 – 06/2008 – Imola, Italy

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

I.T.C.G. Paolini Cassiano

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

EQF level 4

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Italian

**OTHER LANGUAGE(S):**

**English**

|                        |                      |                                    |                                     |                      |
|------------------------|----------------------|------------------------------------|-------------------------------------|----------------------|
| <b>Listening</b><br>B2 | <b>Reading</b><br>B2 | <b>Spoken<br/>production</b><br>B2 | <b>Spoken<br/>interaction</b><br>B2 | <b>Writing</b><br>B2 |
|------------------------|----------------------|------------------------------------|-------------------------------------|----------------------|

**German**

|                        |                      |                                    |                                     |                      |
|------------------------|----------------------|------------------------------------|-------------------------------------|----------------------|
| <b>Listening</b><br>A1 | <b>Reading</b><br>A1 | <b>Spoken<br/>production</b><br>A1 | <b>Spoken<br/>interaction</b><br>A1 | <b>Writing</b><br>A1 |
|------------------------|----------------------|------------------------------------|-------------------------------------|----------------------|

## HONOURS AND AWARDS

#### 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

## ORGANISATIONAL SKILLS

### ● Organisational 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.

## COMMUNICATION AND INTERPERSONAL SKILLS

### ● Communication and interpersonal 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.

## JOB-RELATED SKILLS

### ● Job-related skills

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