Marco Mengoli

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● WORK EXPERIENCE

05/2020 – CURRENT – Zola Predosa, Italy
SOFTWARE ENGINEER – YOOX NET-A-PORTER GROUP

Design and development of backend services in luxury and fashion e-commerce.

- ◦ 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, Continuous integration, Refactoring

03/2017 – CURRENT – 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.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).
    - ■ **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.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.
    - ■ **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 – CURRENT – 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, BOOKKEPER 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):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
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

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.