



Federico Castelnovo

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● ABOUT ME

Strongly motivated and innovation-oriented, I am always looking for something new to learn and new goals to achieve. Since my master's graduation in Computer Engineering in 2020 (110/110 cum laude), I have always worked to innovate and improve digital systems: firstly on industrial robotic systems for major automotive manufacturers, now focusing on digitalization and cloud adoption.

● WORK EXPERIENCE

07/10/2022 – CURRENT Milan, Italy

CLOUD ENGINEER GO REPLY

Back-end developer. I've worked in small teams that improved and/or designed from scratch back-end applications for some of the most important companies in Italy and Europe, mainly in the retail industry.

Principal technologies used:

- Java with SpringBoot framework (for main back-end logic)
- Python (for ingestion of big amount of raw data)
- GCP technologies like CloudRun, AppEngine, CloudSql, BigQuery
- Terraform
- GitLab and BitBucket versioning tools

26/10/2021 – 01/10/2022 Brescia, Italy

SOFTWARE DEVELOPER DINEMA SPA

Currently working on industrial data collection systems, ranging from the physical sensor that produces the data to the machine learning algorithms that extract information from it. My main responsibilities consist in design, develop and test the goodness of parts of a bigger data collection system.

Technical competences:

1. -Languages: C# .Net, Go (Golang), Python
2. -Databases: InfluxDB (time-series database) and SQLite (classic relational DB)
3. -Communication: Telegraf, MQTT, Classic TCP-IP sockets
4. -Others: Quartz Event-Scheduler, Noda Time, SeriLog
5. -OSs: Microsoft Windows and Ubuntu Linux

Skills: Mqtt · C# · Go (Programming Language) · InfluxDB · Telegraf

16/11/2020 – 23/10/2021 Brescia, Italy

ROBOTICS ENGINEER MARPOSS

Main activities:

- -Collect client requirements and formulate a first simple conceptual solution
- -Implement a solution designed in accordance with my senior colleague
- -Realize and test the final result in the client's plant

Technical competence:

- -Fanuc RobotGuide software for the program and simulating robotic plants
- -ABB Robot Studio software for the program and simulating robotic plants
- -Simple Cad modifications

Skills: ABB Robots · ABB RobotStudio · Fanuc Robots

02/06/2020 – 23/07/2020 Brescia, Italy
PROFESSOR ASSISTANT UNIVERSITÀ DEGLI STUDI DI BRESCIA

-Research in collaboration with my Thesis Advisor

● **EDUCATION AND TRAINING**

16/09/2018 – 20/10/2020 Brescia
MASTER DEGREE IN COMPUTER ENGINEERING Università degli studi di Brescia

During my studies I was particularly interested in the following topics:

- Artificial intelligence
- Robotics
- Digital Image Processing
- Control systems
- Data-driven approaches
- Numerical analysis.

Field of study Artificial intelligence and Automation | **Final grade** Final Grade: 110/110 Cum Laude | **Level in EQF** EQF level 7 |

Thesis Thesis: Balancing reliability and accuracy of Interval Predictor Models with the CVaR risk measure.

13/09/2015 – 19/03/2019 Brescia, Italy
BACHELOR DEGREE IN COMPUTER ENGINEERING Università degli studi di Brescia

Six months of delay in graduation due to the development of the thesis on "scalability analysis of load balancing algorithms for distributed systems".

During those final months, I have started a master degree in Computer engineering.

Field of study Computer engineering | **Final grade** Final Grade: 100/110 | **Level in EQF** EQF level 6

10/01/2023 – 10/01/2025
GOOGLE PROFESSIONAL CLOUD ARCHITECT Google

21/02/2023 – CURRENT
MASTER IN PROJECT MANAGEMENT 24Ore Business School

● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
ROMANIAN	A1	A1	A1	A1	A1
GERMAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user