Marco Crespi

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Automation and Control Engineer

Energetic and future oriented Automation and Control Engineer, not scared by new challenges or changes. Strong of university concepts about Control Systems, Automotive, Robotics and Industrial solutions. Used to work under pressure and quality oriented, experienced metalworking production plant and IT laboratory environments bringing innovation and teaming up with different kind of workers. Offers true passion for technology and programming, with attention on projects' success and on-time deliverance.

Education

2018–2021	**MSc in Automation and Control Engineering**, *Politecnico di Milano*, Milan, Italy.
2015–2018	**BSc in Automation Engineering**, *Politecnico di Milano*, Milan, Italy.

Projects

September 2020 - April 2021	**Building data analysis and visualization: a Python-based solution**, *MSc Thesis*, GUI dedicated to data visualisation and analysis of datasets taken from Politecnico di Milano's building, developed in Python for environmental comfort planning and prediction.
February 2020 - July 2020	**Control of a rotating disk through ABB PLC**, *University Project*, Rotating disk's movement and speed control logic and related graphical interface, realised in Codesys development environment.
September 2019 - January 2020	**Temperature control of interconnected rooms**, *University Project*, Heating system's control logic study and experimentation, related to an environment of multiple interconnected rooms.
February 2019 - July 2019	**Direct Current Engine control**, *University Project*, Tram's DC Engine control logic development, due to path simulation of the vehicle.

Working Experiences

November 2021 - ongoing	**Software Developer**, *Toshiba Global Commerce Solutions*, Mezzago, MB, Italy. Software Developer experience, maintaining and improving the software dedicated to Commerce and Sales field, also testing code releases and designing interfaces.
May 2021 - November 2021	**Automation Quality Engineer**, *EDiM Spa - BOSCH group*, Villasanta, MB, Italy. Management and writing of quality documentation related to Automotive products, execution of Leakage test and Burst Test of products and Spectrometer analysis of Metal alloys in Foundry.
March 2021 - May 2021	**Software Engineer**, *Tinvention srl*, Milan, MI, Italy. Experience focused on learning of Full-Stack Java and Relational Databases, focused on application development and coding methods.
2015 - 2021	**Student Tutor**. Students' tutor in Maths, Physics and Science. Learnt how to explain and to sum up concepts and presentations.

Skills and Qualifications

Languages	C, Java, Python, Structured Text, SQL, Matlab, Simulink, Ladder Diagram, Functional Block Diagram
Programs and enviroments	Matlab and Simulink, Spyder, Jupyter, Codesys, Wireshark, Nodered, Microsoft Office, Eclipse, Windows, Linux, PostgreSQL, VMWare, SVN, Bugzilla
Theoretical Knowledge	Control theories, Industrial Robots control, Automotive controls, Nets controls, Fieldbus, PLC, PID, Process modeling, Data Analysis, GUI realization
Job knowledge	Code engineerization, Database realization, Automotive Quality documentation, product Testing, customers' reporting, code analysis, debug and test
Italian	Native level
English	Proficient