



# Matteo Martinelli

## Management Engineer



Reggio Emilia, 09/10/1991



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## Professional Experience

December 2020 – Today: Ph.D. in Industrial Innovation Engineering

- Research Group: Pervasive Computing.
- Main topics: Social IoT, AI applied to IoT scenarios, Big Data analysis.
- Project theme: Self-organizing systems in industrial environment with autonomous learning and causal models.

November 2019 – December 2020: Focus Improvement & Safety Specialist, Full time

- Company: Ognibene Power.
- Main activities: micro-areas management and KPIs monitoring, identification of Kaizens, Kaizen management, SMED, Workplace Organization Step 1 – 3, Operation Tag, EWO, suggestions monitoring and management, S-EWO, Green Tags, Unsafe Conditions/Acts, S-Matrix monitoring, Green Cross monitoring, Project Management.

June 2019 – November 2019: Workplace Organization Support, Part time

- Company: Ognibene Power.
- Main activities: Operation Tag analysis, assembly layout analysis and improvement, tooling card analysis and improvement, time and methods analysis.

January 2019 – May 2019: Master's Degree Internship, Full time

- Company: Dana Motion System.
- Main activities: assembly line analysis, As Is State and Performance mapping, methods and time re-engineering, Plan For Every Part, supplier coordination and solution implementation, Poka Yoke POC engineering based on Convolutional Artificial Deep Neural Network.

## Other Professional Experience

July 2010 – Today: Mentoring and Students Support

- Main activities: After school support, school performance analysis, goal-oriented action planning, goal setting, planning control, orientation to future paths.

## Education & Training

October 2019: Management Engineering Master's Degree

- Final thesis: "An assembly line re-engineering: The Dana Motion System case".
- Final grade: 105/110.

July 2017: participation at the Erasmus+ Program

Destination: Krakow, Poland.

December 2015: Management Engineering Bachelor's Degree.

- Final thesis: "Implementation of a reading and translation system of DXF files into two axis PLC instructions".
- Final grade: 95/110.

July 2011: Scientific High School Diploma.

- Piero Gobetti High School, Scandiano, Reggio Emilia.
  - Final Grade: 75/100.
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## Publications

October 2021: Individual and Collective Autonomous Development

- Platform: arXiv.
  - Themes: Conceptual Framework for individual and autonomous development of intelligent agents.
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## Personal Skills

Languages

- Italian (mother language)
- English (B2 grade).

Social Skills

thanks to my experience abroad, I am good in adapting to different social environments, different cultures and ways of thinking. My recent work experience made me focus on problem solving, active listening and teamwork. Respect and positivity are the key for group effectiveness.

Organizational Skills:

activity monitoring is a key point in the success of tasks and achievement of objectives; combining it with a clear definition of deadlines and path to get through, will be possible to move forward all together in a single direction.

Computer Skills:

- Programming Languages: C#, Java, Python;
  - Programming Libraries: Keras, Gym.OpenAI, Numpy, Pandas, Requests, Flask, PuLP.
  - DB Technologies: SQL, document-oriented DBs.
  - Programming Environments and Tools: VSCode, Anaconda, JupyterLab, Google Colab, MySQL Workbench, PostgreSQL, MongoDB, Git.
  - Ms-Office: Word, Excel, PowerPoint.
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## Certificates and Badges



### Software and technologies for Data Science

- Date: March 2021
- Provided by: the Big DataLab project sponsored by the ESF.



### Internet of Things and Predictive Analysis

- Date: June 2021
- Provided by: the Big DataLab project sponsored by the ESF.



### Deep Learning Applications

- Date: June 2021
- Provided by: the Big DataLab project sponsored by the ESF.

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## Other Informations

- Driving License: B.
- Hobbies & Interests: Motorsport, technology, Raspberry Pi, Arduino, IoT.
- Additional informations: available for work abroad.

I authorize the use of my personal data in compliance with the GDPR 679/16

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