

ANDREA MONGUZZI

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Education

October 2020 - today	Politecnico di Milano <i>PhD student in Information Engineering, System and Control area</i>	Milan, Italy
Sept. 2018 – Oct. 2020	Politecnico di Milano <i>Master of Science in Automation and Control Engineering</i> Master thesis: “A collaborative and reconfigurable robotic solution for production processes with high-mix and low-volume demand” Final grade: 110/110 cum laude	Milan, Italy
Feb. 2020 – Apr. 2020	Delft University of Technology <i>Erasmus exchange</i>	Delft, Netherlands
Sept. 2015 – Jul. 2018	Politecnico di Milano <i>Bachelor of Science in Automation and Control Engineering</i> Final Grade: 110/110 cum laude	Milan, Italy
Sept. 2010 – Jul. 2015	Scientific High School “Paolo Frisi” <i>High School Diploma</i> Final Grade: 100/100	Monza, Italy

Language Skills

Italian, Native

English, Fluent (Master of science taught in English)

Computer Skills

Excellent knowledge of **Matlab and Simulink** (curricular courses, laboratory and projects, Sept. 2015 – Oct. 2020)

Good programming skills: **C, C++** (curricular courses, Sept. 2015 – Mar. 2016, project work Sept. 2019 – Feb. 2020)

Good programming skills **Python** (Deep learning course, Feb. 2020 – Apr. 2020)

Good knowledge of **LaTeX**

Good knowledge of **MS Office Programs** – Word, Excel, Power Point

Basic programming skills **AMPL** (curricular course, Feb. 2018 - June 2018)

Basic knowledge of **Java, SQL** (curricular course and laboratory, Sept. 2015 – Feb- 2017)

Other Information

Additional activities:

- Thesis developed in a Joint Research Centre between Camozzi Automation and Politecnico di Milano focused on collaborative robotics in assembly processes (Apr. – Oct. 2020)
- Group project of Automation and Control Laboratory: development of a model and a control strategy for a storage warehouse (Mar. – June 2020)
- Group project of Deep Learning: reproducibility project based on the paper “U-Net: Convolutional Networks for Biomedical Image Segmentation”. The project is public:
<https://reproducedpapers.org/papers/HCCpp9BNEnUI0z6moLmg> (Feb. – Apr. 2020)
- Group project of Co-Simulation of Energy system: co-simulation using the SimEvents master (Simulink) of a market for distribution grid congestion management. (Feb. – Apr. 2020)
- Grout project of Software Architecture: product vision, architecture, quality and collaboration analysis of the open source project Bokeh. Active system contributions via pull requests. The project is public:
<https://desosa2020.netlify.app/projects/bokeh/> (Feb. – Apr. 2020)
- Project work in collaboration with e-Novia, Smart Robots: project and development of a hand-eye calibration procedure (Sep. 2019 – Feb. 2020)
- Group Project of Constrained Numerical Optimization for Estimation and Control, identification of the matrix of inertia of an unbalanced drone using constrained numerical optimization (Mar. – Oct. 2019)
- Group Project of Automation and Control in vehicles, estimation of the road grade angle for the control of Yape (e-Novia) during turns on slope (Mar. – Sept. 2019)

Hobbies:

Robots, drones, bicycle, running, F1 and reading.

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