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junior mechanic engineer

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Francesco Argentieri
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languages

Italian–mother tongue
English–upper
intermediate

education

2015–Now **M. Sc.** Mechatronics Engineering — University of Trento
Student
Specialization in Mechanics–mechatronics

2008–2015 **Bachelor** Mechanics Engineering — Marche Polytechnic University
Thesis "*Structural analysis of an automotive hot formed sheet component with variable thickness*".
Specialization in Energy-thermomechanical

experience

9/2018–11/2018 **University of Trento** — Trento, Italy
Rapid development CNN for image classification using fine-tuning techniques and implementation on SoC systems
Thanks to the use of framework like Keras is possible to develop refinement techniques starting from already known models. There is discussion of the architecture of a USB commercial device, Intel Movidius neural compute stick, with low power consumption for neural network execution on SoC systems such as Raspberry. Finally, there are the problems and limitations that occurred during the development and distribution of the software implemented.
sofware: Python 3.6, Keras, Tensorflow, Altair PBS (HPC)

9/2017–6/2018 **University of Trento** — Trento, Italy
Distributed robots mapping exploration
Project for the final exam where we consider the problem of exploring an environment unknown with a team of robots. As in the exploration of single robots, the goal is to minimize the overall exploration time. The key problem to solve in the context of multiple robots is that of choose the appropriate destination points for the individual robots so that can explore different regions of the environment simultaneously.
software: Matlab, mex, C++, LaTeX

5/2017–8/2017 **University of Trento** — Trento, Italy
Helicopter's tail-boom and rotor vibration analysis
This work performed during the master course of Modelling and Design with Finite Elements, for the part about the course project. The purpose is to present a consistent finite-element formulation, developed to predict the free vibration characteristics of two different helicopters tail-boom structures.
software: Ansys Mechanical (APDL), LaTeX

2/2015–6/2015 **DIISM, Marche Polytechnic University** — Ancona, Italy
Intership
In the field of machine design developed a thesis during which it has developed the ability to set and solve problems through the FEM simulations.
software: Ansys Mechanical, Altair HyperMesh, LsDyna, Qt, LaTeX

skills

OS
MacOS, Linux, Windows

Package
Matlab & Simulink, Maple, Ansys, SolidWorks, HyperWorks

Software
Microsoft Office, iLife

Programming
C++, C, Qt, Python, Ruby, R, LaTeX

Other
Internet networking, Arduino, Raspberry Pi

certification

2015 **Council of Europe Level B1 (PET)** Cambridge English, University of Cambridge

driver's license B