FrancescoArgentieri

junior mechanic engineer

contact

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languages

Italian-mother tongue English-upper intermediate

education

2015-Now **M. Sc.** in Mechatronics Engineering

Student in the process of completion.

Specialization in Mechanics-mechatronics

2008–2015 **Bachelor** Mechanics Engineering

Marche Polytechnic University

University of Trento

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 (7)

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, Land Grant Gra

skills

OS

MacOS, Linux, Windows

Package

Matlab & Simulink, Maple, Ansys, SolidWorks, HyperWorks

Software

Microsoft Office, iLife

Programming

C++, C, Qt, Python, Ruby, R,

Other

Internet networking, Arduino, Raspberry Pi

certification

2015

Council of Europe Level B1 (PET)

Cambridge English, University of Cambridge

driver's license B

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