



# Mattia Castelmare

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## EDUCATION AND TRAINING

20/09/2021 – 26/07/2024 Rome, Italy

**ARTIFICIAL INTELLIGENCE AND ROBOTICS** Università degli Studi di Roma "La Sapienza"

Github link: <https://github.com/MattiaCastelmare>

Laboratory activities at Department of Computer, Control, and Management Engineering "Antonio Ruberti" : experiments on the KUKA LWR4+ robot for algorithms of sensorless contact detection, isolation, and estimation of contact force in human-robot interaction.

**Website** <https://www.uniroma1.it/it/pagina-strutturale/home> | **Final grade** 110 / 110 Cum Laude | **Level in EQF** EQF level 7 |

**Thesis** "Sensorless collision force detection, localization and estimation for the KUKA LWR4+ robot"

25/09/2017 – 26/03/2021 Rome, Italy

**MECHANICAL ENGINEERING** Università degli Studi di Roma "La Sapienza"

**Website** <https://www.uniroma1.it/it/pagina-strutturale/home> | **Final grade** 107/110 | **Level in EQF** EQF level 6 |

**Thesis** "Energy harvesting: trasduttore piezoelettrico cantilever beam incorporato in pannelli posti sotto il manto stradale per produrre energia elettrica dalle vibrazioni "

## LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## DIGITAL SKILLS

### Programming Languages

C++ | Python | Simulink | Prolog | Octave | Matlab

### IDE and Editor

Visual Studio Code | Notepad++

### Operating Systems

Windows | Linux

### Other instruments

Android Studio | Microsoft Office | Git | Github

### Frameworks and libraries

ROS | DART | Tensorflow | Pytorch