

# Raffaele Pumpo



**Birth date:** 02/03/2001

**Address :** via Bernardo Cavallino 61 B, Naples Italy

**Current employer :** Student at Ecole Centrale de Nantes, 1 Rue de la Noë, 44300 Nantes

## CONTACTS



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Raffaele Pumpo

## DIGITAL SKILLS

- C++
- Python
- Matlab/Simulink
- Delmia/PTC\_Creo/Fusion\_360
- Linux
- Git
- ROS/ROS2
- Coppeliasim edu
- PDDL

## EDUCATION

### Ecole Centrale de Nantes

**Master's Degree in Control and Robotics EMAR0+**

**05/09/2023 - Ongoing**

#### Competencies:

- Mechanics and Mechatronics
- Identify models, perform simulation and analyse results
- Communicate comprehensive results in a meaningful way
- Undertake bibliographic surveys of international research and professional literature
- Manage or be part of a project

**Project:** Control of Baxter Robot Arm in Simulation and on the Real Robot

Objective: Control one arm of the Baxter robot, first in simulation and then on the actual robot. Specifically, the goal is to move the arm so

that a green sphere, placed in the simulation, is centered and at a certain distance from the camera

Actions: Classical visual servoing, add a constraint to avoid useless rotations, add a constraint to take into account joint limits with a safe interval.

### University of Genova

**Master's Degree in Robotics Engineering EMAR0+**

**19/09/2022 - Ongoing**

#### Competencies:

- Activity presentation and discussion
- Programming C++, Matlab, Python
- Computer Vision
- Navigation Systems

**Project:** Tracking

Objective: Develop an advanced system for image change detection and tracking to monitor and identify significant changes in visual scenarios over time.

Actions: Creation of a background image, Relevation of changing pixels and tracking of them.

### University of Naples "Federico II"

**Bachelor's Degree in Automation Engineering**

**19/09/2019 - 14/07/2022**

#### Competencies:

Analytical and numerical modeling  
Interdisciplinary Approach  
Problem Solving  
Design and management of complex systems

**Thesis:** Programming of a robot manipulator in a Matlab/Coppeliasim environment

**Grade:** 108/110

## LANGUAGES

Italiano - Mother tongue  
Inglese - B2  
Spanish - B1