

# Riccardo Franceschini

Robotics & AI

## About Me

As a curious and passionate robotics engineer, I absolutely love diving into tough challenges where deep learning meets robotics. I'm constantly on the lookout for new technologies and driven to see how we can use them to build innovative solutions. My goal is always to push beyond what's expected and bring fresh ideas to life.

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## Skills

## Work Experiences

Python

Pytorch

C++

Open3D

Git

Docker

OpenCV

JS

ROS1/2

CI/CD

TFLite

Linux

Unity3D

Sci-Kit

React

LLM

Pandas

W&B

Numpy

HuggingFace

### Robotic Researcher @ Eurecat

jul 2021 - now

Responsible for developing and deploying advanced algorithms for full and shared autonomy, covering the entire pipeline from sensor data extraction to decision-making. With experience in perception algorithms such as localization, object detection, tracking, and planning, I have deployed these on embedded hardware. The role also involved integrating human-in-the-loop systems for shared autonomy, necessitating intuitive interfaces using Augmented Reality and LLMs. Technology used : C++, Python, Pytorch, Robot Operating System (ROS1/2),OpenCV, Open3D, Unity 3D, TensorFlow, Docker, Git, DDS, Behaviour Trees, Numpy, CI/CD

### Deep Learning Researcher @ University of Trento

feb 2020- jul 2021

Development of deep learning multimodal attention methods, combining combining extracted information from text, audio and video for emotion recognition in the context of human robot interaction Technology used : Python, Pytorch, Numpy, Sci-kit, Pandas, Docker,Git

### Deep Learning Researcher @ FBK

oct 2020 - dec 2020

Research on for an external company on unsupervised human pose keypoint estimation from video sources Technology used : Python, Pytorch, Numpy, Sci-kit, Pandas, Git

### Deep Learning Researcher @ Bosch

feb 2020- oct 2020

Development of deep learning attention methods for pedestrian and vehicle future trajectory prediction in the context of autonomous driving Technology used : Python, Pytorch, Docker, Git

### Full Stack Developer Intern @ Zucchetti Healthcare

mar 2018- jun 2018

Development front-end and back-end of a Social Media Website in nursing houses for supporting reminesce activities. Technology used : HTML, CSS, React Js, Node Js, SQLite

## Side Projects

A progressive web application for controlling ROS 2 robots, tailored for mobile usage. Inspired by retro handheld consoles.

Find out more at : [tessel.la/#robo-boy](https://tessel.la/#robo-boy)

## Languages

Spanish Professional  
Italian Native  
English Professional  
Catalan Basic

## Publications

7 publications at international confereces and workshops

Google Scholar Profile



<https://tinyurl.com/why7yvbty>

## Passions



## Studies

### PhD, Robotics & AI

2021-2024

Industrial Robotic & AI PhD at Danish Technical University conducted at Eurecat (Spain) under the MSCA-ITN programme Thesis Title : Designing a Human-Drone Interaction: Insights from the AeroAssistant Framework

### MSc, Autonomous Systems

2018-2020

European Double Program at University of Trento (Italy) and Aalto University (Finland) under the EIT Digital Master Programme Major Robotics & AI | Minor Business & Entrepreneurship Thesis Title: Feasible and adaptive attention-based models for multimodal trajectory prediction in urban driving scenarios

### BSc, Computer Science

2015-2018

Bachelor degree at University of Trento, Italy, ranked 1st for CS in Italy