




# Miroljub Mihailovic

PhD Student in Robotics and AI at UniPD


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## EDUCATION

### PhD in Robotics and AI

Università degli Studi di Padova - Padova

11/2024 - 11/2027

### M.Sc. Computer Engineering, Artificial intelligence and Robotics

Università degli Studi di Padova - Padova

10/2020 - 07/2022

GPA - 28.62/30

### B.Sc. Computer Engineering

Università degli Studi di Padova - Padova

10/2017 - 09/2020

GPA - 26/30

## WORK EXPERIENCE

### ML Researcher

Nordest Technology

11/2024 - Present

Machine learning researcher providing time-limited support for the development of algorithms and models for detecting anti-money laundering (AML) activities.

Contract : *Freelance*

### Lead Software Engineer in Machine Learning

Nordest Technology

02/2023 - 11/2024

Vicenza - Italy

As a Lead Software Engineer in Machine Learning, my core responsibility revolves around leading the development efforts of AI and ML-based products specifically designed for the detection of Anti-Money Laundering (AML) activities.

### Software Engineer

Università degli Studi di Padova - DEI - IAS LAB

02/2024 - 06/2024

Software engineer working on refactoring code for ROS-Neuro system.

### Software Engineer in Machine Learning

Nordest Technology

04/2022 - 02/2023

Vicenza - Italy

In this role, I've been instrumental in developing software to optimize the identification of suspicious financial transactions. Utilizing machine learning, particularly supervised learning, our software ranks and prioritizes Anti-Money Laundering (AML) alerts, reducing false positives and enabling efficient alert handling for enhanced financial security.

### Research Engineer

Università degli Studi di Padova - DEI - IAS LAB

10/2021 - 07/2022

Research training on reinforcement learning methods, including both theoretical concepts and practical applications.

## TECHINICAL SKILLS

Computer Vision Techniques

Robotics

Machine Learning/Deep Learning

Python

C/C++

Java

MatLab

Scikit-Learn

ROS

TensorFlow

OpenCV

Open3D

Pandas

CPlex

ML flow

Flask

PyTest

NLP

Git/GitHub

## AWARDS & SCHOLARSHIPS

Scholarship & Grant - Cambridge Summer School - Paid £300 to participate (2025)

<https://www.ellis.eng.cam.ac.uk/summer-school/>

2 nd Place - Vicenza - NASA Hackathon Space Apps challenge 2018 (Prize €1000)

2 nd Place - Vicenza - NASA Hackathon Space Apps challenge 2017

## MAIN PROJECTS

Mentee at LeadTheFuture (09/2022 - Present)

Lead The Future empowers top-performing students to achieve their goals and contribute to their communities. (Acceptance rate less than 20%).

Software Engineer - Fly your thesis! Program European Space Agency - UniPD (02/2021 - 11/2022)

ERMES (Experimental Rendezvous in Microgravity Environment Study) project is concerned with the design and development of a test for an autonomous docking manoeuvre between CubeSats mock-ups to be performed on a parabolic flight in order to take advantage of a reduced-gravity environment.

Master Thesis - Reinforcement learning in shared intelligence systems for mobile robots. (10/2021 - 07/2022)

[https://github.com/mirovix/Master\\_Thesis/](https://github.com/mirovix/Master_Thesis/)

Code Refactoring for the ROS-Neuro (02/2024 - 06/2024)

I focused on unit testing and code refactoring for ROS-Neuro to enhance reliability, functionality, and maintainability.

## LANGUAGES

Italian

Native or Bilingual Proficiency

Serbo-croatian

Native or Bilingual Proficiency

English

Full Professional Proficiency