

MIROLJUB MIHAILOVIC

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🌐 [LinkedIn](#)

🐙 [GitHub](#)

📄 [Projects and Papers](#)

EDUCATION

Università degli Studi di Padova

M.Sc. ARTIFICIAL INTELLIGENCE AND ROBOTICS - GPA - 28.519/30

10 2020 - present

Padua, Italy

Università degli Studi di Padova

B.Sc. COMPUTER ENGINEERING - GPA 26/30

10 2017 - 09 2020

Padua, Italy

MAIN COURSEWORK / SKILLS

- | | | | |
|--|---------------------------------------|---|--------------------------------|
| • Machine Learning & Artificial Intelligence | Robotics and Control & Control Theory | • Automata, Languages and Computation | • Database & Computer Networks |
| • Computer Vision & 3D Data Processing | • Operation Research 1-2 | • Fundamental of Electronics & Circuit Theory | • Project Management |
| • Industrial Robotics & | • Intelligent Robotics | | |

MAIN PROJECTS / PAPERS / PRIZES

Fly your thesis! ESA 📄

02 2021 - present

- 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.
- **Supervision: ESA (European Space Agency), DII (Department of Industrial Engineering).**

72nd International Astronautical Congress (Dubai, UAE) 📄

2021

- Experimental Rendezvous in Microgravity Environment Study (ERMES).
- [Download Paper](#)

Final Master thesis project

10 2021 - present

- The main topic of the activity is an autonomous robot controlled by different policies. Those depend on a reinforcement machine learning method and the Brain Computer Interface (BCI) implementation.

Solutions for TSP (Traveling Salesman Problem) 📄

03 2021 - 08 2021

- Small thesis about different algorithm for solving the Traveling Salesman Problem.

Second place NASA Hackathon Space Apps challenge (Prize €1000)

10 2018

- System for astronaut localization using triangulation of signals.

INTERNSHIP / WORK EXPERIENCE

Università degli Studi di Padova - DEI - IAS LAB 📄

10 2021 - 07 2022

Research Training

Padua, Italy

- Research training on **reinforcement learning** methods.

Nordest Technology 📄

04 2022 - present

Software Developer

Vicenza, Italy

- Software developer for automatic fraud detection through **machine learning** implementations.

TECHNICAL SKILLS

Languages: Python, C, C++, Java, Matlab, PHP, SQL, XML

Tools/Libraries: ROS, TensorFlow, Scikit-learn, Keras, OpenCV, OpenAI, Open3D, PyTorch, Eigen, Pandas, CPLEX

Technologies: Linux, Windows, GitHub, Git, Arduino, Raspberry

LANGUAGES

ITALIAN: Native language

ENGLISH: English B2 - Speaking 📄, English B2 - Reading and Listening 📄

SERBO-CROATIAN: Native language

EXTRACURRICULAR

Didactic support for high school students in the following subjects: Physics, Mathematics and Computer Science, 2018 - Current.

SOFT SKILLS

Self-motivated, Professionalism, Teamwork, Time-management, Humour, Goal setting, Self-starter, Planning, Collaboration, Cooperation, Coordination

PERSONAL INTEREST

Reading, Chess, Hackathon competitions, Sport: bodybuilding, running and competitive football (2008-2018).