

RICCARDO RETTORE

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ABOUT ME

Graduate student pursuing a Master's in Control Systems Engineering, specializing in robotics and AI, with graduation expected in September 2025. Experienced in developing advanced algorithms for Deep Learning, Reinforcement Learning, Computer Vision and Control Systems designs. Passionate about applying AI and robotics to real-world challenges.

EDUCATION

Master degree in Control Systems Engineering, University of Padova, Italy 2023 - ongoing
Relevant Coursework: Machine & Deep Learning, Reinforcement Learning, System Theory, Computer Vision, Control Engineering Laboratory, Convex Optimization, Robotics and Control I and II.

Bachelor degree in Mechatronics Engineering, University of Padova, Italy 2020 - 2023
Final score: 109/110
Relevant Coursework: Machine Design, Electrical Machines and drives, Digital and Analog Electronics, Metallurgy, Applied Thermodynamics, Oriented Programming, Calculus, Linear Algebra, Computer Architecture, PLC and industrial communication networks.

High-School diploma in Applied Sciences, IIS Newton Pertini, Camposampiero (PD) 2015 - 2020

AWARDS

3 times winner of scholarship "1000 e 1 lode" for the years 2021, 2022, 2023, awarded only to the top 3% best performing students of each degree.

Eramus Scholarship for the years 2024, 2025.

Awarded by hometown for two consecutive years for **ranking among the top 10 students** in the town.

EXPERIENCE

Full-stack Developer 2020 - present
Freelancer *Padova*

Experienced in collaborating with startups, primarily based in Padova, to design and develop full-stack applications using Flutter as the core programming language, complemented by various Google technologies. Skilled in building both front-end interfaces and back-end systems to deliver seamless, user-friendly solutions. Key projects are:

- **SDGs Managing App:** A cross-platform application enabling industries to input, track, and monitor compliance with sustainability rules and goals.
- **Restaurant and Hotel Management Apps:** Customized solutions for businesses to showcase menus, manage orders, and handle reservations efficiently.
- **Note-Taking App:** A mobile application designed for intuitive note-taking and organization, enhancing productivity for users.

Waiter 2018–2020
Da Mason Restaurant *Trebaseleghe, PD*

Worked evening shifts while studying in high school, developing strong time management, teamwork, and customer service skills in a dynamic environment.

SKILLS

Technologies	Matlab, Simulink, SolidWorks, Fusion 360, Blender, ROS, Tensorflow, PyTorch, Numpy, Pandas, Python, C, C++, Flutter, LaTeX, Git, Github Actions.
Soft Skills	Enjoy working in teams, with experience in managing high-pressure situations, adapting to shifting priorities, and utilizing problem-solving skills to find effective solutions.

PROJECTS

Reinforcement Learning for Swing-Up Double Pendulum Stabilization. Currently implementing a reinforcement learning agent to stabilize and perform the swing-up of a double pendulum system.

Aurora: Object Classification with Oriented Boosting. Developed a deep learning pipeline for object classification with an emphasis on boosting techniques for improved accuracy. ([Github repository](#))

Unicycle Controller Design. Designed a series of controllers to stabilize a unicycle, using modern control theory and algorithms. ([Github repository](#))

Computer Vision for Parking Spot Detection. Built a computer vision-based system to detect available parking spaces from images. ([Github repository](#))

Control Systems for Double-Wheel Robot. Developed controllers for a double-wheel robot to stabilize and perform basic movements. ([Download Report](#))

EXTRA-CURRICULAR ACTIVITIES

- **Founder & Active Member of a Cycling Team**
Founded and actively participate in a local cycling team, organizing events and promoting cycling within the community.
- **Sports Enthusiast**
Engaged in various outdoor sports, including cycling, hiking, running, trekking, and snowboarding, fostering a strong connection with nature and maintaining an active lifestyle.
- **Passion for Continuous Learning**
Constantly engaged in personal projects to expand my knowledge, apply new tools, and explore emerging technologies.

LANGUAGE CERTIFICATIONS

English Language Proficiency	2021
B2 English, University of Padova TAL Test	

CONTACTS AND PROFILES

- **Email:** riccardorettore@gmail.com
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- **GitHub:** github.com/RiccardoRettore
- **Portfolio:** [riccardo-rettore-portfolio](#)