

Alice Rosetti

PERSONAL DETAILS

AFFILIATION: Department of Electrical, Electronic and Information Engineering “G. Marconi”, Alma Mater Studiorum Università di Bologna, Viale del Risorgimento 2, 40136, Bologna, Italy
EMAIL: a.rosetti@unibo.it
DATE OF BIRTH: October 06, 1997
LANGUAGES: Italian – native
English – written and spoken, fluent

CURRENT POSITION

1 Nov 2023 – current	Ph.D. Candidate in Automatic Control and Operational Research. Department of Electrical, Electronic and Information Engineering “G. Marconi”, Alma Mater Studiorum Università di Bologna, Italy. <i>Advisor:</i> G. Notarstefano <i>Co-advisor:</i> F. Schiano <i>Topic:</i> Distributed Optimization for Multi-Drone Decision Making. <i>Collaboration:</i> Leonardo Labs - Autonomous Systems, Rome, Italy.
1 Nov 2024 – current	Orientation activities for Automation Engineering students. Department of Electrical, Electronic and Information Engineering “G. Marconi”, Alma Mater Studiorum Università di Bologna, Italy.
1 APRIL 2026 – current	Ph.D. Research Collaborator Autonomous Systems Lab, Leonardo Labs, Rome, Italy. <i>Topic:</i> Developing advanced bearing-only localization strategies for aerial target tracking within a joint industry-academia research project. My work aims to design a solution that is fully integrated into the existing control stack, with performance validated through both high-fidelity simulations and outdoor experimental campaigns. <i>Supervisors:</i> F. Schiano, D. Cappello

EDUCATION

Oct 2023	Master degree in AUTOMATION ENGINEERING (LM-25), Alma Mater Studiorum Università di Bologna, Italy 110/110 cum laude, <i>Advisor:</i> G. Notarstefano <i>Thesis:</i> Distributed Control and Real-Engine Simulators for Choreographies of Nano-Quadrotors.
Oct 2020	Bachelor degree in AUTOMATION ENGINEERING (L-08), Università di Bologna, Italy 102/110 <i>Advisor:</i> A. Tilli <i>Thesis:</i> Mechanism based on metamaterials: the state of the art.

POSITIONS HELD

1 SEP 2025 – 28 FEB 2026 | Visiting Researcher at TU Delft (The Netherlands)

	<i>Advisor:</i> L. Ferranti <i>Project:</i> Cooperative target estimation and tracking with a team of drones.
1 MAR 2020 – 30 JAN 2022	Theatre Organizer <i>Company:</i> Elsinor S.C.S, Milan (IT) <i>Role:</i> Italian project manager for “PlayOn!” and “Connect-Up”, two co-operation projects announced by the European Commission under their Culture Funding Stream Creative Europe to understand, learn, test and apply immersive technology (i.e., virtual reality, robotics, slam, holography, binaural sound) in theatre.
1 SEP 2016 – 30 JUN 2020	Dance Teacher <i>Company:</i> Explodance S.S.D., Forlì (IT)

MENTORING EXPERIENCE AND STUDENT SERVICE

2024 – current	Co-supervision of master theses in Automation Engineering and Artificial Intelligence: A. Dario (collab. with Leonardo Labs, Rome), E. Piccini (collab. with IST, Stuttgart), G. Crisci (collab. with Concordia University, Montreal), A. Pasi, A. Perna (collab. with Leonardo Labs, Rome), A. Alboni (collab. with Leonardo Labs, Genova), A. Chiacchiaretta, S. Sarti, R. Innamorati, L. Pirli Capitani, L. Bachetti Spurio (collab. with Concordia University, Montreal).
2024 – current	Co-supervision of bachelor theses in Computer Engineering and Automation Engineering: A. Pirini, A. Frisari, F. Corti, M. Urbano, G. De Micco, F. Alberti.

OTHER ACTIVITIES

2025 – current	President of 18conLode APS.
2025 – current	President of Diabetes Marathon ASD.
2019 – 2025	Executive board member of Diabete Romagna ONLUS.

SOFTWARE PROFICIENCY

Advanced:	Python, ROS 2, Webots, LaTeX, Microsoft Office Suite.
Intermediate:	C/C++, Matlab/Simulink, Docker, Bash, Git, Gazebo.
Basic:	Unity, C#.

PREPRINTS AND IN PREPARATION

- [A1] A. Rosetti, L. Pichierri, D. Cappello, F. Schiano, G. Notarstefano “MROPE: A Multi-Robot Safe Cooperative Strategy via combined Predictive Safety Filters and Ellipse-based Constraint Compression”, 2026. Under review in *IEEE Robotics and Automation Letters (RA-L)*. Preprint available: arXiv:2607.29203.
- [A2] A. Rosetti, A. C. Papuc, F. Schiano, L. Ferranti, G. Notarstefano “Active Bearing-Only Target Tracking in Multi-Robot Systems: A Distributed Moving Horizon Estimation Approach”, 2026. Under preparation.

- [A3] A. Alboni, G. Alfonso, A. Monguzzi, A. Rosetti, G. Notarstefano, N. Kashiri “Navigating Narrow Spaces: A Duality-Based NMPC Framework with Discrete Control Barrier Functions for Mobile Manipulators”, 2026. Under preparation.

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Bologna,
August 12, 2026

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