

Luca Bricarello

Robotics Engineering student

Contact

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About Me

Robotics Engineering Master's student with a strong passion for autonomous systems. Skilled in C++, Python, and ROS2 for developing, simulating, and implementing control and perception software. Experienced in designing electronic systems and control logic for complex robotic applications.

Language

- Italian
- English

Hard Skills

C, C++, Python, MATLAB, ROS/ROS2,
Electronics, Embedded Systems,
Control systems, CAD, Machine
Learning, Gazebo, PX4

Soft Skills

Problem Solving, Teamwork,
Critical Thinking, Adaptability,
Organizational Skills

Education

Master's Degree in Robotics Engineering

2024 – present

Università degli Studi di Genova

Currently enrolled, expected graduation in October 2026.

Bachelor's Degree in Electronics and Information Technology Engineering

2021 – 2024

Università degli Studi di Genova

Final grade: 110/110 cum laude

High School Diploma in Scientific Studies

2016 – 2021

Liceo Scientifico Statale Gian Domenico Cassini

Grade: 90/100

University Projects

UAS Challenge 2025

Mar – Jul 2025

Institution of Mechanical Engineers (IMechE)

International competition where teams design and build an autonomous UAV to simulate a humanitarian aid mission. Member of the avionics/electronics team: developed the electronic system, implemented custom flight behaviors, configured the control system, integrated the UAV in simulation, and planned mission operations. The team won the Advancement Award at the Show Off event in the UK.

I-RIM Challenge

Aug – Oct 2025

I-RIM 3D conference 2025, Rome

Programming a collaborative task for the Tiago robot using the ROS2 framework. The system enabled the robot to identify, grasp, and hand over or place work objects requested by a human operator, while autonomously perceiving the environment and ensuring safe human-robot interaction.

Bachelor's Thesis: Trajectory and Formation Control for a Multi-UAV System with a Suspended Load

Feb – Jul 2024

Università degli Studi di Genova

Developed model predictive control algorithms for a 3-UAV team transporting a suspended load, including maintaining an optimal formation to minimize reorganization time and oscillations after a UAV failure, as well as generating and following curvilinear paths to successfully minimize load oscillations compared to standard methods. All work was implemented in C++ (ROS2) and validated in Gazebo.

Additional information

English Language Certificate (B2 Level)

2019

Cambridge Assessment English – Genoa, Italy