STEFANO AGNELLI

Brescia, Italy / Paris, France — Email — LinkedIn — GitHub

RESEARCH INTERESTS

Robot Learning and Imitation Learning, with a focus on Learning from Demonstration, Large Language Models for Robotics, semantic task representations, task generalization, and multimodal AI.

EDUCATION

Msc in Industrial Automation Engineering
Year of completion: 2024 - 2026
Institution: Università degli studi di Brescia - Brescia, Italy
Thesis: LLM-Guided Semantic Understanding and Imitation Learning for Robotic Task Adaptation

Double Degree in Mechatronic systems for rehabilitation
Year of completion: 2025 - 2026
Institution: Sorbonne Université - Paris, France

Bs in Industrial Automation Engineering
Year of completion: 2021 - 2024
Institution: Università degli studi di Brescia - Brescia, Italy
Grade: Cum Laude
Thesis: Machine Learning–Based Methods for MIMO System Identification

RESEARCH EXPERIENCE

Master Thesis (ongoing)
Time Period: 2026
Institution: Exsensia AI - Kilometro Rosso Bergamo , Italy
Brief Description: Investigating how Large Language Models can enable semantic abstraction and generalization of robotic tasks learned from demonstrations, bridging low-level multimodal data and high-level task representations.

AI Developer Engineer
Time Period: 2025 - 2026
Institution: Facility Genius - Remote
Brief Description: Developed an online platform to produce LLM generated documentation starting from UML diagrams for an American company operating in Metrics-Driven technologies.

TECHNICAL SKILLS

Programming: Python, C++
Machine Learning: PyTorch, imitation learning, reinforcement learning, multimodal learning, large language models
Robotics: ROS2, robotic manipulation pipelines, perception-to-action pipelines, task-level control
Systems: Git, Linux

SERVICE & ACTIVITIES

IEEE Student Branch Brescia

Active member involved in technical initiatives and professional development activities.

AI Hackathon Winner — Milan 2025

Winner of a national AI hackathon; developed a functional AI-based system for large-scale facility simulation in a 7-hour challenge.

IEEEXTREME Programming Competition

Italian Winner; Top 500 worldwide among 7,000+ teams, participated for four consecutive years.