

DAMIANO IMOLA

damiano.imola@outlook.it • linkedin.com/in/damianoimola • damianoimola.github.io

PROFESSIONAL EXPERIENCE

Poste Italiane , Rome, RM	September 2025 – Present
Artificial Intelligence Engineer	
<ul style="list-style-type: none">Architected a multi-agent system for enterprise document retrieval via Haystack, improving query accuracy by 10% and reducing latency by 56%, enabling support on millions of documentsLed a small team of 4 engineers in system design and implementation	
Leonardo S.p.A. , Leonardo Labs, Rome, RM	January 2025 – August 2025
Artificial Intelligence Research Engineer	
<ul style="list-style-type: none">Developed a novel multi-conditioned diffusion framework to synthesize photorealistic driving scenes, effectively bridging the domain gap between training data and real-world deployment environmentsMitigated domain shift in perception tasks by generating targeted synthetic datasets for data-scarce urban environments, resulting in +3% mAP improvement in object detection performance on unseen domainsOrchestrated large-scale training experiments on the Davinci-1 HPC infrastructure, optimizing sampling efficiency and validating the methodology via accepted publication at ECMR 2025	
SPQR RoboCup Team , SPL League, Rome and Brazil, RM	September 2024 – Present
Vision and Robotics Engineer (Volunteer)	
<ul style="list-style-type: none">Re-engineered NAO's walk-in kick engine, reducing CPU workload by 5% +/- 1% while increasing in-game precision by 3% +/- 0.7%Achieved 3rd place globally in the RoboCup's 2025 challenge in Salvador De Bahia, BrazilOptimized the NAO's obstacle detection system, surpassing prior benchmarks (4% on speed and 2% on accuracy)	
Capgemini , Rome, RM	November 2021 – March 2022
Software and Machine Learning Engineer	
<ul style="list-style-type: none">Designed a 1-D CNN for stress detection from audio inputs, achieved 83% accuracy on the RAVDESS datasetBuilt a full-stack, cross-platform mobile app that integrated real-time stress-level monitoring and personalized wellness recommendationsFinalist at Innovation4All contest for best innovative research project (2021 edition)	
Axenta , Rome, RM	September 2018 – September 2020
Full-Stack Software Developer	
<ul style="list-style-type: none">Built and deployed scalable .NET applications while establishing CI/CD pipelines, in Agile environmentsRedesigned backend API architecture reducing latency by 7% and enabling high-throughput automation	

PUBLICATIONS

ECMR 2025 , Workshop on Learning and Planning for Intelligent Robots	
<ul style="list-style-type: none">“Generative Domain Generalization for Autonomous Driving via Diffusion-Based Data Augmentation”, <i>Damiano Imola, et al.</i>	

EDUCATION

University of Rome Sapienza , Rome, RM	September 2023 – July 2025
Master's degree in Artificial Intelligence and Robotics (LM-32)	
<ul style="list-style-type: none">Major: Artificial Intelligence, 110/110 summa cum laude + honorsHonors program: Selected as Top 1% of students university-wide	
University of Rome Tor Vergata , Rome, RM	September 2020 – July 2023
Bachelor's degree in Computer Engineering (L-08)	
<ul style="list-style-type: none">Major: Software Engineering, 110/110Honors program: best student within the Computer Engineering faculty	

SKILLS: Python, C++, PyTorch, CUDA, Docker, Git, Linux