Giuseppe Farano

PH.D. STUDENT IN ROBOTICS AND INTELLIGENT MACHINES

Date and place of birth: August 2^{nd} 2001 - Barletta *Residence: Via Ofanto 58 - Barletta (BT) - Italy*

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Profile

Ph.D. student in National Doctorate in Robotics and Intelligent Machines (DRIM). Highly enthusiastic about industrial applications of AI.

Education

Bachelor's degree in Computer and Automation Engineering *2020 - 2023*

POLYTECHNIC OF BARI *Bari, Italy*

Thesis title: Analysis and implementation of a standard architectural layer for a Smart city data exchange on Blockchain

Master's degree in Computer Science Engineering. Curriculum: AI and Data Science *2023 - 2025*

POLYTECHNIC OF BARI *Bari, Italy*

Thesis title: Study, development and application of Artificial Vision algorithms and AI models for quality control in industry

Ph.D. in Robotics and Intelligent Machines *2025 - 2028*

UNIVERSITY OF GENOA - PARTNERS: CNR STIIMA, LEONARDO SPA *Bari, Italy*

Research topic: AI applications for non-destructive testing and quality control in aerospace industry, using optical and acoustic sensors.

Work experience

Software Engineer Intern *Jun. 2022 - Sep. 2022*

ANGELSTAR S.R.L. *Mola di Bari, Italy*

Design, development in C++ and documentation of a new prototype of communication system between train and a signaling station

AI Research Scientist Intern *Mar. 2025 - Jun. 2025*

CNR STIIMA *Bari, Italy*

- Data acquisition and data preparation of Hyperspectral Images (HSI) related to the textile industry.
- Fine-tuning of HyperSIGMA, the state-of-the-art foundation model for Hyperspectral Imaging.
- Skills: PyTorch, Deep Learning, Hyperspectral Imaging.

Other relevant activities

Poliba Soft Skill Academy *Jun. 2021*

POLYTECHNIC OF BARI *Bari, Italy*

Skills: Neuro-Linguistic Programming (NLP) and strategic communication, critical thinking, team building and leadership.

Project Work: Using Kullback-Leibler divergence for Automated Guided Vehicles (AGV) Localization *March-April 2024*

POLYTECHNIC OF BARI , CNR STIIMA *Bari, Italy*

- Defined set-up and developed of an algorithm for cloudpoints acquisitions from a LiDAR.
- Statistical analysis of the acquired data through the KL divergence for AGV position estimation.
- Skills: Python threading library, Intel Realsense library, Blickfeld LiDAR library.

Soft Skills

- Strong motivation to develop hard skills to expand knowledge and competencies.
- Natural propensity to learn and face ambitious challenges.
- Propensity to collaboration.

Languages

Italian Native

English Technical

Authorization to process personal data

I authorize the processing of personal data pursuant to Legislative Decree 196/2003