Feola

Curriculum Vitae

Education

2016–2019 **Master in AI and Robotics**, *Università di Roma "La Sapienza"*, Rome, *Grade 110L/110.*

2011–2016 **Bachelor in Computer Engineering**, *Università degli studi di Napoli "Federico II"*, Naples, *Grade: 96/110.*

2006–2011 **Science High School**, *Liceo scientifico "E. Torricelli"*, Somma Vesuviana.

Master thesis

Title Informative map reconstruction using small UAV for Precision Agriculture

Abstract This work aims to simulate a sunflower field in a more realistic manner, monitored by a UAV with a RGB camera, able to build the traversed map, focused on estimating the weed distribution within the field. To set up communication among the simulated robot with mounted sensors, the Unity environment, the crop/weed classifier and other necessary entities, ROS is required.

Bachelor thesis

Title Master-Slave SPI communication on STM3LF401C-DISCOVERY microcontrollers

Abstract SPI master-slave communication using two identical STMicroelectronic devices, namely two STM32F401VC. The master can ask to the slave for voltage or temperature measurements.

Languages

Italian Native

English Advanced

Computer skills

Programming languages Python, C, C++, C#, Java, SQL

Markup languages LaTeX, XML

Mathematical tools Octave, Matlab

Other tools Git, Unity, ROS

Attendance certificate

Workshop "Small UAVs for precision agriculture", May 13, 2018, Monte Roberto (AN), Italy

Summer program "Tohoku University Engineering Summer Program", August 10, 2018, Sendai, Japan

Project developed during studies

- Telepresence and navigation of the virtual world, using Oculus Rift, Cyberith Virtualizer and VREP to command a simulated Pioneer P3-DX mobile robot followed by a standard quadrotor.
- 2D Least Squares Based Bearing Only SLAM: a simplified application of LS algorithm for a differential wheeled robot.
- LTL_f to PDDL