



Luigi Feola

Curriculum Vitae

Education

- 2016–July 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 STM32F401C-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 Mother tongue
- 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

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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
- 2D Least Squares Based Bearing Only SLAM: a simplified application of LS algorithm
- LTL_f to PDDL

Interests

- New experiences
- Watch TV series
- Travelling
- Sport

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