# Andrea **Nisticò**

*Via Macaggi 18/5, 16121 Genova GE, Italy*

+39 320 1108745  |  andrea.nistic@gmail.com  |  andrea-nisti  |  andrea-nistico  |  Birth date: 7 September 1991

## About me

I am a young and motivated roboticist with a strong interest in software architectures, applied control and an international background.
I love challenges and learning from the others, I maturated a deep interest in MAVs (Micro Aerial Vehicles) and aerial technology during my master thesis.

## Work Experience

### Teseo Srl
*Genova, Italy*

RESEARCHER AND SOFTWARE DEVELOPER
*Jun. 2018–Now*

Development of ambient intelligence solutions for the Kibi project: indoor localization and monitoring for elderly care applications on embedded wearable devices.

- Developed an Android WearOS application for elderly care monitoring; main features: indoor localization (BLE + Neural network classifier), fall detection, inacticity detection, device authentication and management trough RESTful API
- Designed, implemented and tested a fall detection algorithm based on inertial and barometric pressure data
- Developed a mobile Android application in Kotlin as a user companion app for system management
- Defined the technical specifications (both fucntional specification and desired peripherals/sensors) of an embedded board intended as a wearable smartwatch
- Developed a prototype firmware enabling a fall detection algorithm on the custom board, based on a STM32 ARM Cortex-M4 microcontroller
- Debugging and testing of the prototype firmware

### Università degli studi di Genova
*Genova, Italy*

RESEARCHER, AERIAL ROBOTICS
*Feb. 2016 – Feb. 2018*

My work was conducted in the context of the Italian project MAREA, a consortium of universities and companies working on robots cooperation and management under search and rescue scenarios.

- Developed a software, written in C++ under Linux environment, for managing general flight missions
- Designed and integrated a task for automatic landing on a floating and moving platform
- Integration of a companion computer (Raspberry Pi 3) with the PixHawk flight controller
- Integration of an Optitrack motion capture system with the PX4 estimation algorithms
- Supervised master students for group projects and co-supervised 2 bachelor thesis an one master thesis

### Università degli studi di Genova
*Genova, Italy*

TEACHING ASSISTANT
*Sep. 2017–Now*

- Teaching and conducting lab sessions on Robot Programming to master students. Main topics are: ROS programmingand GazeboSim
- Teaching and conducting lab sessions on C++ to bachelor students

### Università degli studi di Roma Tor Vergata
*Roma, Italy*

MANAGEMENT STAFF @ EFMC9 CONFERENCE
*Sep. 2012*

- Worked as part of the organizing staff at the 9th European Fluid Mechanics Conference

## Education

ACADEMIC QUALIFICATIONS

### Ecole Centrale de Nantes (I Year), Università degli studi di Genova (II year)
*Nantes, France; Genova, Italy*

MASTER DEGREE IN ROBOTICS ENGINEERING: EUROPEAN MASTER ON ADVANCED ROBOTICS, EMARO
*Sept. 2013 - Oct. 2015*

- Double degree program
- Ranked first in global class score

Hands-on and theoretical experience in: path planning, AI, linear / non-linear analysis of dynamical systems, control and state estimation, optimization algorithms, embedded systems, mobile robots and robot modeling, programming of industrial manipulators

### Università di Roma Tor Vergata
*Roma, Italy*

BACHELOR DEGREE IN ENGINEERING SCIENCES
*Sept. 2010 - Oct. 2013*

- First engineering course thought in english
- Strong foundation on scientific subjects, mechatronics background
- Score 110/110 cum laude

Strong foundation of: mathematics, phisics, dynamic and static mechanics, electronics

EXTRAS

### Doulos
*Online*

PROGRAMING ON ARM CORTEX-M CERTIFICATE
*June 2021*

- Certificate short link: `https://bit.ly/3Aj9CvK`

One week course with instructor. Theory and labs on Cortex M programming

### Doulos
*Online*

FREERTOS TRAINING
*December 2020*

- Certificate short link: `https://bit.ly/3ppdcOF`

One week course with instructor. Theory and labs on FreeRTOS

### B9Lab
*Online*

ETHEREUM/HYPERLEDGER DEVELOPER CERTIFICATION
*October 2018*

- Ethereum certificate short link: `https://bit.ly/3ppdcOF`
- Hyperledger certificate short link: `https://bit.ly/2R4wjk4`

3 months training and project delivery on Ethereum and Hyperledger blockchain development

### Various

SUMMERSCHOOLS
*2015 to 2017*

- RegML PhD course @ Università di Genova, Italy: Theory and exercises on regularization methods for machine learning
- TRADR/EuRathlon Summer School on heterogeneity in robotics @ University of Oulu, Finland: cooperative robotics, state estimation and path following with ground and aerial vehicles
- TRADR Summer School on Autonomous Micro Aerial Vehicles: theoru and exercises on modeling, control and state estimation of aerial vehicles

## Publications

*Anchorage, US*

FIRST AUTHOR
*Sept 2017*

- **Nisticò A.**, Baglietto M., Casalino G., Simetti E., Sperindè A.,"Marea project: UAV Landing procedure on a movingand floating platform": Oceans '17 MTS/IEEE , September 18, 2017, Anchorage, USA.

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