



## Curriculum Vitae Europass

### Informazioni personali

Cognome(i)/Nome(i)

**Vannini Andrea**

Indirizzo(i)

Telefono(i)

Fax

E-mail

Cittadinanza

Data di nascita

Sesso

**Occupazione  
desiderata/Settore  
professionale**

**collaborator of Scuola Superiore Sant'Anna di Pisa**

### Esperienza professionale

Date

01/04/2019 – CURRENT – Pisa, Italy

Lavoro o posizione ricoperti

SOFTWARE ENGINEER – THE BIROBOTICS INSTITUTE OF SANT'ANNA SCHOOL OF ADVANCED STUDIES

Principali attività e responsabilità

During my employment for the biorobotics laboratory I have developed the vision software for drones, for the search and interception of a suspended objects.

Developed a communication system between drones on wifi networks, for the coordinated flight of several drones in the same area.

I supervised and maintained both software and hardware the laboratory computers.

I have collaborated with various contributions to the following projects:

- MBZIRC Mohamed Bin Zayed International Robotics Challenge
- SMASH: Smart Machine for Agricultural Solutions Hightech
- FID-U4E (Smart Factory -- Unity 4 Efficiency) Fabbrica Intelligente Diffusa
- InGene: Development and application of an integrated, multiparametric system for early genetic
- diagnosis and personalized treatments in children and adults with neuromuscular diseases
- AUTOMA: a wearable device to assess the upper limb muscular activity in patients with
- neuromuscular disorders
- INGENE 2,0 Development and application of an integrated, multiparametric system for early genetic
- diagnosis and personalized treatments in children and adults with neuromuscular diseases
- National Geographic UAVIMALS: Unmanned Aerial Vehicle Integrated with Micro Airborne Laser Scanner

- VIRMA : Smart agriculture droneusing heterogeneous platforms and AI techniques
- 2022 IEEE Autonomous Unmanned Aerial Vehicles (UAV) Competition: A competition where autonomous drones actively track one of several ground robots in a miniature city

Nome e indirizzo del datore di lavoro

Stefano Roccella

## Istruzione e formazione

Date 20/12/2010

Titolo della qualifica rilasciata Bachelor Degree

Principali tematiche/competenza professionali possedute SCIENZA E TEORIA DELL'INFORMATICA

Nome e tipo d'organizzazione erogatrice dell'istruzione e formazione Università degli Studi di SIENA Facoltà di Scienze Matematiche Fisiche e Naturali, Siena (Italia)

Livello nella classificazione nazionale o internazionale 26 - CLASSE DELLE LAUREE IN SCIENZE E TECNOLOGIE INFORMATICHE

## Capacità e competenze personali

Madrelingua **Italian**

Altra(e) lingua(e) **English**

Autovalutazione

Livello europeo (\*)

**Lingua**

**Lingua**

Comprensione		Parlato		Scritto	
Ascolto	Lettura	Interazione orale	Produzione orale		
C1	C2	B2	B2	C1	

(\*) Quadro comune europeo di riferimento per le lingue

Capacità e competenze sociali

I'am a great teammate I can cooperate in projects involving many people, both as a subordinate and as a leader. But at the same time, if required, I can autonomously develop an entire project.

Capacità e competenze informatiche

Development of complex robotic systems, such as self-navigation drones.

Machine Learning and Deep Learning frameworks Tensorflow Keras PyTorch Python Linux C++ C Microsoft Office LaTeX Machine Learning Computer Vision OpenCv Proficient in Python Java Javascript C C++ and some knowledge of Matlab Parallel Programming (CUDA OpenMP) Robotic Operative System (ROS) ROS Gazebo

Patente

Ulteriori informazioni

17/11/2020 – 17/11/2022 BLS D - Basic Life Support Defibrillation Cardiopulmonary resuscitation course and use of the semi-automatic defibrillator for all age groups for non-professional personnel