

# Emanuele Giacomini

Please refer also to my [Linkedin profile](#) to have more info about me.

## EDUCATION

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- Oct 2019 – Present    **MSc in Artificial Intelligence and Robotics (2 years, English)**  
*University of Rome, Sapienza*
- Sept 2016 – Oct 2019    **BSc in Computer Engineering - Laurea Triennale in Ingegneria Informatica**  
*University of Rome, Sapienza*  
Final grade: 110 cum laude / 110
- Sept 2011 – Jul 2016    **High School Diploma - Perito Elettronico**  
*Istituto Tecnico Industriale Pacinotti/Archimede (Rome)*

## ACTIVITIES

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- Oct 2019 – Feb 2020    **Research project: BLUES - *University La Sapienza, Rome***  
We developed a new paradigm for the creation of Bluetooth Low Energy mesh networks.  
The project was written in C/C++ for embedded systems (ESP32).  
Submitted at **First International Workshop on Intelligent Things and Services 2020**
- Jun 2019 – Feb 2020    **Research grant - *University of Rome, Sapienza, Rome***  
I've developed a Life Detection system based on a sequence of low resolution pictures.  
The detector is written in C++ and it's based on OpenCV framework.  
Works by stacking a multitude of filters for feature extraction on iris/pupil activity.
- Feb 2019 – Oct 2019    **Honours Programme - *University of Rome, Sapienza, Rome***  
Studied and applied odometry calibration on 4W Holonomic mobile platform.  
Realized a multi joint implementation for the Orazio firmware.
- Oct 2018 – Feb 2019    **Python Developer - *University of Rome, Sapienza, Rome***  
CVRPTW (Capacitated Vehicle Routing Problem with Time Windows) Solver developed  
using Google OR-Tools framework.  
Developed with the collaboration of CTL (Centro di ricerca per il Trasporto e la Logistica).
- Feb 2018 – Jun 2018    **CyberChallenge Attendee - *University of Rome, Sapienza, Rome***  
Attendee for Cybersecurity training programme organized by the CINI, in collaboration with  
the Ministry of Defence and the SISR.  
The programme covered arguments like: malware analysis, reverse engineering and web security.
- Oct 2016 – May 2018    **Teacher in Robotics - *IIS Pacinotti/Archimede, Rome***  
Held a course on robotics (ICARO) in which I trained 10 teams/year for the R.JC  
During the last year, one of the soccer teams achieved the second place at the  
European Open competitions.

## COMPUTER SKILLS

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LANGUAGES	C/C++, Python3, Matlab, Java, Android, Assembly(x86), MySQL, Embedded programming
SYSTEMS	Unix based systems, Windows
OTHER SOFTWARE	<a href="#">Github</a> , Gitlab, ROS, Octave, Simulink, Tensorflow2, OpenCV.

## LANGUAGE SKILLS

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ITALIAN	Native
ENGLISH	Working proficiency

## PUBLICATIONS

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- [1] E. Giacomini, F. D'Alterio, A. Lacava, and F. Cuomo. Blues: A self-organizing ble mesh-network paradigm for iot environments. In *2020 IEEE 21st International Symposium on "A World of Wireless, Mobile and Multimedia Networks" (WoWMoM)*, pages 409–414, 2020.

Last updated: November 1, 2020