



Riccardo Caprari

MSc student in Artificial Intelligence and Robotics

I am an enthusiastic and value-driven Software Engineering graduate at Sapienza University of Rome, specializing in Artificial Intelligence and working on interesting projects.

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📍 Rome, Italy

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🐙 github.com/RickyMexx

SKILLS

- team working
- problem solving
- communication
- logical thinking
- flexibility
- Linux/Unix
- optimization
- database architecture
- machine learning
- software development

LANGUAGES

Italian
Mother Tongue

English
Full Professional Proficiency

INTERESTS

- artificial intelligence
- robotics
- IoT
- machine learning
- operations research

EDUCATION

Master of Science in Artificial Intelligence and Robotics Sapienza University of Rome

09/2019 – Present

Bachelor of Science in Software Engineering Sapienza University of Rome

09/2016 – 06/2019

Final grade: 110/110

Selected courses

- Operating Systems
- Computer Networks
- Functional and Parallel Programming
- Algorithms and Data Structures

WORK EXPERIENCE

High School Teacher - Robotics and Programming course Istituto Santa Maria

02/2018 – 06/2019

Rome

Achievements/Tasks

- Purpose of this course is to introduce and understand the basic concepts related to the study of Robotics and Computer Science, in particular the C programming language applied in machine control techniques.

PROGRAMMING SKILLS

Python, C, C++, Scala, Java, Javascript, HTML, CSS, SQL, LaTeX

PROJECTS

BE Mesh (10/2019 – Present)

- A new paradigm for BLE (BluetoothLow Energy) that enables mesh networking among wirelessly interconnected devices, both in a single hop and multi-hop fashion. Re-implementation of the first Android version of the project in C ++ through the use of ESP-32 in order to improve efficiency and scalability .

Efficient Management of Hybrid Fleet Based Distributed System (03/2019 – 10/2019)

- Study of a real distribution system problem, designing its mathematical formulation and developing a drone-powered solution. Analysis of experimental results, obtaining important improvements in terms of time and energy consumption on the study cases.

Hermes - Remote Open and Closed Loop Control of a Brushed Motor (12/2018 – 04/2019)

- A project developed in C, introducing an error-checked radio communication between an Host and one or more Clients. Implementation of a PID system to control an electric motor.

PERSONAL EXPERIENCE

I-RIM Conference at Maker Faire, Rome (10/2019)

Crew member. Meetings with professors and researchers on new technologies.

Reply Code Challenge 2019 (03/2019)

Team of 4 - Final position: Top 100

ENEL EBC in Redmond, Seattle (03/2019)

Attendee at Microsoft EBC meetings.