

# Gabriele Sisinna

**Robotics Engineer** 

gabriele.sisinna@gmail.com

+39 345 6196383

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linkedin.com/in/gabriele-sisinna-4a6081109

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github.com/gsisinna

Robotics engineer with a strong inclination towards innovation and prototyping. Passionate about software development for robot control and mechatronics. Looking for innovative projects and opportunities around the world.

#### **WORK EXPERIENCE**

# Robotics Engineer Italian Institute of Technology (IIT)

10/2021 - Present

Genova

- Achievements/Tasks
- Humanoid robots assembly and prototyping
- Software development for robot control
- Team-working with Agile methodologies
- Mechatronics troubleshooting and system upgrades
- Maintenance and after-sales support
- Docker-based application deployment

## Research Student (MSc)

Scuola Superiore Sant'Anna (SSSA)

03/2021 - 10/2021

Pisa

- Achievements/Tasks
- Design and implementation of a bio-inspired control system for social humanoid robots (Abel)
- Python, ROS, YARP, Movelt, Robot Control
- Mechatronics setup and troubleshooting
- Trajectory planning based on minimum jerk algorithms

# Lab training: Control of a redundant (7DOF) simulated robotic arm (KUKA)

Scuola Superiore Sant'Anna (SSSA)

11/2020 - 02/2021

Pisa

- Skills
- Definition of manipulator kinematics and virtual model
- Closed Loop Inverse Kinematics (CLIK) algorithms
- Trajectory planning, simulation and execution
- Python programming and ROS interface development

### **EDUCATION**

#### MSc Biorobotics

Scuola Superiore Sant'Anna (SSSA)

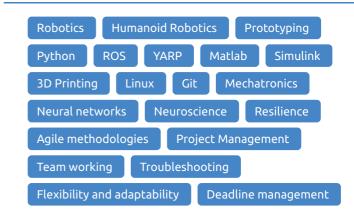
10/2018 - 10/2021

Pisa

#### Courses

- Robotics / HRI / Social Robotics
- Bionic Prosthesis / Robotic Exoskeletons
- Soft Robotics / Smart Actuators
- Machine Learning / Data Mining
- Neuroscience / Computational Neuroscience

#### **SKILLS**



#### **PROJECTS**

iCubTest Application (05/2022 - 08/2022)

- Development of an application to automate and simplify test execution for iCub encoders
- Deployment and automation using docker-compose and docker swarm
- Writing code in C++ for extension and optimization of tests package

Design and implementation of a bio-inspired control system for social humanoid robots (03/2021 - 10/2021)

- Development of control software for bio-inspired humanoid robot with the goal of creating a stable and usable platform in the field of HRI
- Python and ROS software development
- Implementation of human-like movements for compliant interaction

High-level controller development for IH2 Azzurra (SSSA) robotic hand (12/2019 - 05/2020)

- Embedded microcontroller (PIC) programming for grasping pose management
- Writing of technical documentation for user use

### **LANGUAGES**

English Italian
Full Professional Proficiency Native or Bilingual Proficiency

#### INTERESTS

Entrepreneurship AI Open Source Platforms

Linux Marketing Design Finance