



ANDREA GRAVILI

COMPUTER SCIENTIST

ABOUT ME

I've loved playing around with computers since I was little. I think mixing this passion with my creativity has helped me grow a lot. I love exploring new things, listening to music, and socialising with new people!

EDUCATION

SAPIENZA, UNIVERSITY OF ROME

09/2024 - current

Master's degree in AI and Robotics

UNIVERSITY OF TRENTO

09/2021 - 07/2024

Bachelor's degree in Computer Science

ITIS G.PERLASCA

09/2016 - 06/2021

High School degree in Computer Science

WORK EXPERIENCE

ROBOTICS SOFTWARE ENGINEER | 10/2024 - CURRENT Sapienza - SASA

Skills: ROS2, C++, Python, Electronic. Developing the navigation stack for a rover. Working directly on the firmware and also on the autonomous planning and search.

ROBOTICS SOFTWARE ENGINEER | 08/2024 - 10/2024 University of Trento

Skills: ROS, C++, Python, JavaScript. Made a software with an easy to use GUI for interacting and make move an humanoid robot, tested on Wired Next Fest of Rovereto 2024.

ROBOTICS SW. ENGINEER INTERN | 02/2024 - 06/2024 University of Trento

Skills: ROS, C++, Python, software for the interaction with an humanoid robot, path planning, problem solving

Goals achieved:

- Robot interaction with people at the Trento Museum of Sciences
- Tested software in 2 big scenarios (University and MUSE)

TEACHING ASSISTANT | 09/2023 - 02/2024 University of Trento

University tutor for the course: software engineering

Skills: JS (node.js), react.js, HTML + CSS, building of a software architecture, Mongo DB, agile, leadership, communication, creativity

Goals achieved:

- Helped multiple students with their projects with positive feedback
- Better communication and teaching skills

CONTACTS



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github.com/TitanWasHere

AREAS OF EXPERTISE

- Software engineering
- Robotics software dev
- Artificial Intelligence
- UI designer

LINGUISTIC SKILLS

- Italian (mother tongue)
- English C1

DIGITAL SKILLS

PROGRAMMING LANGUAGES AND FRAMEWORKS

- | | | | |
|----------|------------|---------------|------------|
| • C/C++ | ██████████ | • Simulink | ██████████ |
| • Python | ██████████ | • Tensorflow | ██████████ |
| • MATLAB | ██████████ | • Node.js | ██████████ |
| • ROS | ██████████ | • MongoDB | ██████████ |
| • Java | ██████████ | • Vision (CV) | ██████████ |

COMPUTER BASICS

- | | | | |
|----------|------------|----------|------------|
| • Docker | ██████████ | • Unix | ██████████ |
| • Git | ██████████ | • Office | ██████████ |
| • Unity | ██████████ | | |
| • Gazebo | ██████████ | | |

PROJECTS

DA VINCI UNITY SIMULATOR

09/2025 - 11/2025

For the university course "Medical Robotics", me and my team, have implemented the Da Vinci Surgical system into the simulation engine "Unity", we implemented the kinematics structure and also a simulation.

Github: https://github.com/TitanWasHere/DaVinci_Unity

ROBOT CONTROL COMPARISON

07/2025 - 11/2025

For the university course "Robotics 2", me and my team have studied two controllers: FBL and PBC. Then we determined their performance on a Franka Emika Panda robot manipulator, the dynamic model of which has 20% uncertainty on some (or all) parameters. I made the comparison on different and profile trajectories.

Github: https://github.com/TitanWasHere/Franka_control_comparison

ARI THESIS

02/2024 - 07/2024

Project for the University of Trento, which deals with a humanoid robot named ARI. My responsibility in this project is to manage the speech and listening node, as well as the calibration and path planning.

Github: github.com/TitanWasHere/ARI-thesis

HONOURS AND AWARDS

WINNER OF THE 2024 VENETOSTARS EDITION

22/05/2024

Won the 2024 VenetoStars project for developing a solution using space data to protect the UNESCO site of the Prosecco Hills. The project, named Safe-Hills, was presented at the Space Meeting 2024 in Venice.

Website: <https://venetostars.com/#winnerd>

EUROPEN ROVER CHALLENGE

08/2025

Participated with my team at the European Rover Challenge in Krakow. We arrived #1 in the remote challenge and #16 in the on-site challenge.