



ANDREA GRAVILI

COMPUTER SCIENTIST

ABOUT ME

I have been immersed in the field of Computer Science since a young age, harboring a keen interest in astronomy and consistently striving for excellence. This journey has honed my skills as a proficient problem-solver with a resolute commitment to advancing technological research.

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)

UNIVERSITY TUTOR | 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
- ROS programming
- Web programming
- UI design

LINGUISTIC SKILLS

- Italian (mother tongue)
- English C1

DIGITAL SKILLS

PROGRAMMING LANGUAGES AND SIMIL

- | | | | |
|------------|------------|--------------|------------|
| • C | ██████████ | • Vue.js | ██████████ |
| • C++ | ██████████ | • React.js | ██████████ |
| • Python | ██████████ | • ROS | ██████████ |
| • Java | ██████████ | • PHP | ██████████ |
| • HTML+CSS | ██████████ | • MongoDB | ██████████ |
| • Node.js | ██████████ | • PostgreSQL | ██████████ |
| • MatLAB | ██████████ | • R | ██████████ |

COMPUTER BASICS

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

PROJECTS

ROBOT KINEMATICS USING ML

12/2024 - 1/2025

This is a project for the university course 'Machine Learning'. It aims to use machine learning to calculate the kinematics of a robot manipulator. The project is made with Python and Tensorflow.

Github: <https://github.com/TitanWasHere/Autonomous-kinematics-manipulator>

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

ISS4U

09/2022 - 09/2023

Project for the university course 'Software Engineering', it's an application to manage tasks on the International Space Station (ISS) and display data about that. The website is made with node.js and vue.js

Github: <https://github.com/SE-T28>

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>