

# Nicola Saltarelli, Computer and Automation Engineer

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🐙 @sltncl

in Nicola Saltarelli

🌐 <https://sltncl.github.io>



## About me

I am Nicola Saltarelli, currently in my second year of the Master's program in Automation Engineering at the Polytechnic University of Bari. Born in Foggia on 2 June 2001, I have a strong passion for technology, automation, and programming, and I am dedicated to continually enhancing my skills in these fields.

Throughout my academic career, I have participated in various academic and personal projects, where I applied my knowledge and developed problem solving and teamwork skills. These experiences have allowed me to bridge theory and practice, contributing to my professional development.

I am a goal-oriented and determined individual with a strong commitment to continuous learning, eager to contribute to the advancement of technologies that shape the future.

## Education

- 2023 – now     📖 **Master degree** in Automation Engineering at Politecnico di Bari.
- 2020 – 2023     📖 **Bachelor degree** in Computer and Automation Engineering at Politecnico di Bari.  
Thesis title: *Identification and Fractional Order Control of DC Motors*.  
Vote: 110/110 cum laude
- 2015 – 2020     📖 **High School Diploma** in Administration, Finance, and Marketing with a specialization in Business Information Systems at I.T.E.T. Blaise Pascal.  
Vote: 100/100

## Skills

- Coding     📖 Java, Python, R, SQL, JavaScript, C++, HTML, CSS, NodeJS, ReactJS, VHDL,  $\LaTeX$
- Automation     📖 Matlab, Simulink, Solidworks, LabView, Fritzing, NI Multisim, ROS, Docker.
- Languages     📖 Italian: native speaker. English: level B2.

## Projects

- Turtlebot3 autonomous exploration     📖 Implementation of an autonomous exploration system based on TurtleBot3, ROS2, and Gazebo.
- Motion control with Neural Network     📖 Motion control of a 6 degree of freedom (DOF) robotic manipulator with neural network.
- Snake on FPGA DE10-Lite     📖 This repository describes the implementation of the Snake game on the FPGA DE10-Lite platform using the VHDL hardware description language.
- Position control of linear actuator     📖 This repository presents the implementation of a system for controlling the position of a linear actuator.
- Trajectory Planning for Niryo Ned 2     📖 Trajectory planning project for the Niryo Ned2 robot.
- JustChat     📖 Project for a web-based messaging application similar to WhatsApp Web.