



Sofia Razou

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● EDUCATION AND TRAINING

03/09/2024 – CURRENT Athens, Greece

DIPLOMA IN ELECTRICAL AND COMPUTER ENGINEERING National Technical University of Athens

Website <https://www.ece.ntua.gr/en/undergraduate/info> | **Field of study** Electronics and automation | **Level in EQF** EQF level 7

11/09/2021 – 31/05/2024 Athens, Greece

HIGH SCHOOL DIPLOMA Model School of Agioi Anargiroi

Website <https://lyk-peir-ag-anarg.att.sch.gr/>

● WORK EXPERIENCE

 **RAS IEEE NTUA SB – ATHENS, GREECE**

SENIOR MEMBER OF TEAM IRASIONAL NTUA – 03/11/2024 – CURRENT

- Main member in RAS IEEE NTUA Student Branch for the Bosch Future Mobility Challenge 2025.
- Participated in the team as a semifinalist in the BPMC 2025, focused on team task delegation and organisation (discord, google docs and calendar), sensor fusion and software architecture of the project.
- Preparation of seminars and workshops like "Robotalk" 2025 concerning lane following and computer vision.

● HONOURS AND AWARDS

25/06/2025

Semifinalist in Bosch Future Mobility Challenge 2025 – Bosch Romania – Bosch Romania

Participated in the Bosch Future Mobility Challenge 2025 as a member of the NTUA RAS team. Reached the international semifinals. Contributed to the design and implementation of autonomous driving in a 1:10 scale. Focused on sensor fusion and the development of software architecture.

16/07/2024

Panhellenic Exams – Greek Ministry of Culture and Education

Scored 19.460/20.000 points in the Panhellenic Exams and entered the school of Electrical and Computer engineering in top rank (13th).

06/05/2023

Bronze Medal in EOES 2023 - EOES – European Olympiad of Experimental Sciences

Participated and got distinguished in the first place of the European Olympiad of Experimental Sciences, in the local and national level while obtaining a Bronze medal in the European-wide phase held in Latvia.

29/12/2019

Math Competition Thales – Greek Mathematical Society

● CONFERENCES AND SEMINARS

25/08/2025 – 29/08/2025 Hannover, Germany

International Summerschool in Microelectronics (ISSOM 2025)

International Summer School on Microelectronics, held in Leibniz University. It focused on chip-design, FPGA accelerated computing and their fusion with AI and the automotive.

13/12/2024 – 15/12/2024 Athens, Greece

NTUA_H4CK

A series of workshops and seminars focused on ethical hacking, cryptography and cyber security held as an initiative of the IEEE student branch of the National Technical University of Athens.

23/04/2024 – 23/04/2024 Athens, Greece

CERN particle physics Masterclass 2024

An introductory particle physics masterclass organized by the international Particle Physics Outreach society and CERN.

SKILLS

C++ | Software Libraries: OpenCV, ROS | HTML | Javascript | CSS | Microsoft Office, LibreOffice, LaTeX | MATLAB | Matlab Simulink (Intermediate) | Good knowledge in programming in Python | Computer vision | Quantum computing | Verilog, System Verilog | FPGA quantum emulation | Hybrid quantum-classical optimization | SoftSkills(Git, Github) | Linux Basics | Programming of Microcontrollers (Arduino, ESP8266) | P-NUCLEO STMicroelectronics

PROJECTS

10/02/2025 – CURRENT

REXUS/ BEXUS Quantum emulation for aerospace proposal

Researched and collaborated with the CSLab and photonics-quantum computing labs of NTUA in order to deliver my team's proposal about quantum algorithm emulation on FPGA platforms, for the sounding rocket of the REXUS programme. If we are selected, we will launch our project on March 2027.

Moon Position Detector

Developed a real-time embedded system using a brushless DC motor and two servos to precisely position a telescope lens for lunar observation.

Antikythera Mechanism Simulation

Implemented with Arduino to simulate the relative positions of celestial bodies in real-time using servo motors.

Heap Game Simulation

Simulates a two-player game with a Greedy player and a Monte Carlo player. Utilizes probabilistic Monte Carlo algorithms for scalable simulations.

LANGUAGE SKILLS

Mother tongue(s): GREEK

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user