Robert-Nicolae Zaharioiu

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EDUCATION

University Politehnica of Bucharest Faculty of Automatic Control and Computers
Bachelor's Degree in Computer Science **2024 – 2028**

EXPERIENCE

Teaching Assistant for Numerical Methods Feb 2026 – Jun 2026 (**Upcoming**)
- **Selected** for the role based on excellent academic performance in **Numerical Methods** subject.
- Will **instruct** first-year students in core computing and mathematical principles.

Robotics Team Manager **FTC** — Sept 2024 – Present
- **Mentored** high school students in programming (**Java**), robot design and construction, 3D modeling (**AutoCAD** & **Onshape**) and printing, focusing on **logical problem-solving** and **collaboration**.

Web Development Trainee (Erasmus+ VET Project) **Portugal** — May 2023
- **Developed** and **implemented** a complete website using **HTML, CSS and JavaScript**.
- **Collaborated** within an international team to deliver the project within the 2-week deadline.

PROJECTS

Scientific Data Analysis & Interpolation Python, Data Visualization, JSON — ⬤ Code
*Python solution to fetch experimental data from **Google Sheets**, apply complex interpolations, and generate custom analytical graphs for scientific analysis.*

Numerical Methods Algorithm Implementation MATLAB, Linear Algebra — ⬤ Code
*Implemented foundational numerical methods (e.g., Gauss-Seidel, Newton's Method, Polynomial Interpolation) to **efficiently solve complex** engineering and mathematical problems.*

Data Structures and Algorithms Implementation C/C++ — ⬤ Code
*Implemented core data structures (e.g., linked lists, hash tables, trees) and fundamental algorithms, **demonstrating** proficiency in computational efficiency and problem-solving.*

Low-Level Programming Implementation Assembly (x86), C — ⬤ Code
Implemented fundamental algorithms and data manipulation tasks using Assembly x86 language, focusing on direct memory addressing, register management, and performance optimization.

FTC Robotics Team Code Repository Java, Git — ⬤ Code
*Software development for the FIRST Tech Challenge robot, **implementing** autonomous navigation, tele-op control, and hardware interface with motors and sensors.*

EXTRACURRICULAR

Technical Manager of Logistics (Volunteer) **LSAC** — Aug 2025 – Present
- **Managed** technical requirements for student activities, ensuring effective logistical support.
- **Collaborated** with multiple teams to **streamline** internal operations and **improve** efficiency.

Logistics Department Manager (Volunteer) **IT&C Fair 2026** — Jul 2025 – Present
- **Led** the logistics department for **Romania's largest technical job fair**, overseeing resource allocation, technical setup, and operational planning for exhibitors and attendees.
- **Demonstrated** strong organizational and **leadership abilities** in managing student teams and ensuring smooth execution of technical requirements.