



# Raul Ababei

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## About me

Passionate about robotics, programming, and technology, I enjoy creating projects that combine mechanics, electronics, and software.

I've participated in national and international competitions, working on complex systems that strengthened my teamwork and problem-solving skills.

Experienced with C++, Python, JavaScript, C#, PHP, React, Spring Boot, Flask, Node.js, .NET, PostgreSQL, Git, and TailwindCSS, I love exploring new technologies and developing innovative solutions.

Currently studying Computer Science at the University of Bucharest (FMI), I'm focused on turning creative ideas into real, impactful projects.

## Work experience

**Product development manager** | Preh Romania | 18/03/2024 - 22/03/2024 | Brasov, Romania

During a one-week internship at Preh Romania through the "Fit4Future" program, I explored the pre-production process and observed how engineering, design, and manufacturing teams work together to transform ideas into tangible products. The experience strengthened my passion for technology and the manufacturing industry.

## Education & Training

**Highschool Diploma** | Colegiul National de Informatica "Grigore Moisil" | 09/09/2021 - 06/06/2025 | Brasov, Romania

Field of study Mathematics-Informatics | Final grade: 9.75

**Bachelor's Degree** | Universitatea din Bucuresti | 30/09/2025 - Current | Bucuresti, Romania

Coursework focused on core areas of computer science, including programming (C, C++, Python), algorithms and data structures, software engineering, databases, and computer networks. Additional studies covered embedded systems, artificial intelligence, and robotics, providing a strong foundation in both software development and hardware integration.

Field of study Computer Science

## Language Skills

Mother tongue(s): **Romanian**

	Understanding		Speaking		Writing
	Listening	Reading	Spoken production	Spoken interaction	
English	B2	B2	B2	B2	B2
German	A2	A2	A1	A1	A2

## Skills

Microsoft Office | Microsoft Word | Microsoft Powerpoint | C++ | Python | JavaScript | PHP | C# | SQL | HTML | CSS

## Driving Licence

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### Driving licence B

### Driving licence AM

## Projects

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### First Tech Challenge | 15/11/2022 - 01/05/2024

Served as Mechanical Team Leader for the Kronbot Club, participating in the FIRST Tech Challenge (2022–2024). Led the design, assembly, and optimization of robot mechanisms, coordinating a small team to ensure reliable and efficient performance in competition. Gained valuable experience in mechanical design, teamwork, and problem-solving under pressure.

### DpIT | 01/05/2023 - 30/10/2023

As part of this competition, I built a startup from scratch, bringing together my robotics experience and newly acquired business and entrepreneurship skills.

### Quest | 15/02/2024 - 01/08/2024

Participated in the InfoEduca ie National Competition with Quest, a multifunctional robot capable of transforming between rover and drone modes for autonomous exploration and emergency operations.

As co-developer, I worked on the mechanical design, electronics integration, and software architecture, combining Python, React, Flask, and embedded systems to enable real-time video transmission, object detection, and autonomous control.

### InfoTron | 30/09/2021 - 01/08/2024

Over three consecutive editions of the InfoTRON competition, I developed multiple robotics projects that combined mechanics, electronics, and programming into fully functional systems. Among these, I designed a transformable robot capable of operating both as a drone and a four-wheeled rover for autonomous exploration.

### Maratonul de Educatie Antreprenoriala | 30/11/2023 - 15/05/2024

Participated in the Entrepreneurship Marathon, where I built a startup concept and brand from scratch. Our project focused on developing a smart waste bin capable of identifying and sorting recyclable materials automatically.

I contributed to creating the business plan, branding, and product concept, combining technical innovation with entrepreneurial thinking. This experience gave me insight into how technology can address environmental challenges while enhancing my teamwork, communication, and problem-solving skills.

### Udraw | 15/05/2025 - 29/07/2025

Developed uDraw, a Windows-based drawing application built in C# with Windows Forms and connected to a SQL Server database for saving and loading drawings. Designed as a personal learning project, it focuses on combining UI development with database management.

Key features include creating and saving drawings to a database, loading previous sessions, and managing configurations through a custom settings file.

Technologies: C#, .NET Framework, Windows Forms, SQL Server

## Honours and Awards

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### InfoEducatie National Olympiad - 3rd place | Ministerul Educatiei | 05/08/2024

### First Tech Challenge National Qualification | FTC Romania | 10/03/2023

### Infotron 2nd edition - 1st place | Informatica, pasul tau spre lumea mecatronicii - Infotron\_2022 | 10/05/2022

### Infotron 4th edition - 1st place | Informatica, pasul tau spre lumea mecatronicii - Infotron\_2024 | 15/06/2024

**Robochallenge 15th edition - freestyle showcase - honorable mention** | Robochallenge | 27/10/2024

**Informatics Regional Olympiad - Honorable mention** | Ministerul Educatiei | 10/03/2023