

PERSONAL INFORMATION

Tarbă Nicolae

 0770250028 nicolae.tarba@upb.ro

Gender Male | Date of birth 03/09/1995 | Nationality Romanian

JOB APPLIED FOR

WORK EXPERIENCE

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- | | |
|-------------------|---|
| 02/2019 – Present | Engineer
Politehnica University of Bucharest (Romania)
Physics Department |
| 01/2025 – 12/2026 | Researcher
Recognition of malignant cells from cavity serous fluids: an integrative method combining hyperspectral imaging and machine learning
PED 2024
– Image processing |
| 01/2025 – 12/2026 | Researcher
Composites based on porous silica as versatile labels for highly sensitive lateral flow immunoassay
PED 2024
– Image processing |
| 06/2022 – 06/2024 | Researcher
Advanced medical systems for boron-capture enhanced proton therapy
PED 2021
– Image processing |
| 06/2022 – 06/2024 | Researcher
Improved technology to fabricate holographic marks with encapsulated thermochrome system
PTE 2021
– Image processing |
| 10/2020 – 10/2022 | Researcher
Smart technology based on new nanoparticles for improving photon and hadron therapy
PED 2019
– Image processing |
| 07/2017 – 10/2017 | Programmer (part-time)
Kepler Rominfo, Bucharest (Romania)
– JIRA plugin development |
| 07/2016 – 09/2016 | Intern
Kepler Rominfo, Bucharest (Romania)
– Java web application development |

06/2015 – 08/2015 **Intern**
HTSS, Bucharest (Romania)
– C# web application development

EDUCATION AND TRAINING

2020 – present	PhD Student	ISCED 8
Scientific Coordinator - Pr. Dr. Eng. Costin-Anton Boiangiu Doctoral School of Automatic Control and Computers Politehnica University of Bucharest (Romania)		
2018 – 2020	Master's Degree	ISCED 7
Graphics, Multimedia and Virtual Reality, Politehnica University of Bucharest (Romania)		
2018 – 2020	Psychopedagogy II	
Politehnica University of Bucharest (Romania)		
2014 – 2018	Bachelor's Degree	ISCED 6
Faculty of Applied Sciences, Politehnica University of Bucharest (Romania)		
2014 – 2017	Psychopedagogy I	
Politehnica University of Bucharest (Romania)		
2010 – 2014	Baccalaureate	ISCED 3
Unirea National College, Focșani (Romania)		

PERSONAL SKILLS

Mother tongue Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	A1	B1	A2	A2	A2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills – teamwork: I have worked in various types of teams

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Proficient user	Independent user	Proficient user

[Digital competences - Self-assessment grid](#)

Computer skills – proficient in C++, C#, Matlab
 – experience with Java, Python
 – experience with web development (HTML, CSS, JavaScript, JQuery, Ajax, etc.)
 – experience with SQL
 – proficient in $\text{\LaTeX}$
 – competent with Microsoft Office Excel, Word and Powerpoint

Driving licence AM, B, B1

ADDITIONAL INFORMATION

Interests – Algorithmics
 – Virtual Reality
 – Simulations
 – Computer Graphics
 – Image Processing
 – Computer Vision
 – Mathematics
 – Statistics
 – Artificial Intelligence
 – Data Visualization
 – Physics

- Honours and awards
- Excellent paper award [29]
 - Third prize at the C. C. Teodorescu professional Strength of Materials competition, university phase 2016
 - Mention (fourth place) at the C. C. Teodorescu professional Strength of Materials competition, national phase 2016
 - Third prize at the Ion I. Agârbiceanu Physics competition, university phase 2016
 - Third prize at the Traian Lalescu Mathematics competition, university phase 2016
 - Mention (fourth place) in the Scientific Student Communications Sessions Didactic Section 2016
 - Third prize in the Scientific Student Communications Sessions Mathematics Section 2016
 - Second prize in the Scientific Student Communications Sessions Mathematics Section 2015
 - First prize in the Scientific Student Communications Sessions English Section 2015
 - Third prize at the Traian Lalescu Mathematics competition, university phase 2015
 - Participation at the Traian Lalescu Mathematics competition, national phase 2015
 - Third prize at the Ion I Agârbiceanu Physics competition, university phase 2015
 - Participation at the National Olympiad of Informatics, national phase 2014 and 2013
 - First prize at the National Olympiad of Informatics, regional phase 2014 and 2013
 - Participation at the National Olympiad of Mathematics, national phase 2012 and 2009

LINKS

Annexes <https://1drv.ms/f/s!AiQLzTe3I8x5guscRYMh-GcRKciS2Q>

Google Scholar <https://scholar.google.com/citations?user=P3w6vLUAAAAJ>