

Curriculum vitae

PERSONAL INFORMATION

Tarbă Nicolae

0770250028

<u>nicolae.tarba@upb.ro</u>

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

JOB APPLIED FOR

WORK EXPERIENCE

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)

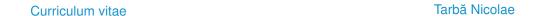
Kepler Rominfo, Bucharest (Romania)

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

English French

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C2
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

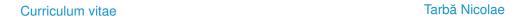
- Computer skills proficient in C++, C#, Matlab experience with Java, Python
 - experience with web development (HTML, CSS, JavaScript, JQuery, Ajax, etc.)
 - experience with SQL
 - proficent in L^AT_EX
 - competent with Microsoft Office Excel, Word and Powerpoint

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
- 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://ldrv.ms/f/s!AiQLzTe3I8x5guscRYMh-GcRKciS2Q

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