
LinkedIn:

Phone:

Mail:

Nationality:

EDUCATION

Bachelor Degree in Computer Science

2018-2022

Technical University of Cluj-Napoca

- Faculty of Automation and Computer Science - specialization Computer Science (in English)
- Technologies learned and used: Arduino, C/C++, ELM, Java, OpenGL, OpenCV, Pascal, Python, Prolog, SQL, VHDL, Assembly
- Thesis title: 'Feature Extraction to Detect Ageing and Degradation of Landmarks Used in Automated Driving Scenarios'

Master Studies in Communication

2022-2024

Technical University of Cluj-Napoca

- Faculty of Electronics, Telecommunication and Information Technology - specialization Technologies, Systems and Applications for eActivities
- Technologies learned and used: Python, Arduino, Kotlin, Matlab
- Thesis title: 'Comparative Study for the Detection of Degraded Traffic Signs Using Machine Learning and Image Processing Techniques'

PhD Student in Electronic Engineering and Telecommunications

2025-present

Technical University of Cluj-Napoca

- Faculty of Electronics, Telecommunication and Information Technology
- Doctoral Field: Electronic Engineering, Telecommunications, and Information Technologies

WORK EXPERIENCE

Software Developer

2021 - present

- *Working Student at Bosch, Cluj-Napoca, Romania (2021-2022)*
 - *topic: mapping and localization*
 - *projects: Video Road Signature, Landmark Detection*
 - *technologies: Matlab, C++*

- *Computer Vision Engineer at Bosch, Cluj-Napoca, Romania (2022-present)*
 - *topics: mapping and localization, camera calibration*
 - *projects: Intersection Detection Classification, Static Calibration*
 - *technologies: Python, C++, Microsoft Azure, Grafana*
 - *publications:*
 - *Co-author of a U.S.A. patent application: Method for Detecting a Traffic Junction, US2025131818 AA, PatBase number: 107655824 (Published: April 24, 2025, Application date: Sep 30, 2024)*
 - *Co-author of a German patent application: DE10 2023210179 A1 (Published: April 24, 2025, Application date: Oct 18, 2023)*
 - *Co-author of a China patent application: CN119845289 A (Published: April 18, 2025, Application date: Oct 17, 2024)*
 - *Co-author of a Japan patent application: JP2025071012 A2 (Published: May 02, 2025, Application date: Oct 16, 2024)*

Associate Teaching Assistant at Technical University of Cluj-Napoca, Romania 2025–present

- *Assisting in teaching the course Fundamentals of Programming in C and C++*
- *Supporting students with coursework, assignments, and lab activities*
- *Providing guidance on basic concepts of object-oriented programming and algorithm design*

CERTIFICATIONS AND PUBLICATIONS

- *CISCO Academy – Certificate in Networking Essentials* 2014–2015
- *IBM – Introduction to Quantum Computing Certificate* 2020–2021
- *Co-author of a U.S.A. patent application: Method for Detecting a Traffic Junction, US2025131818 AA, PatBase number: 107655824 (Published: April 24, 2025, Application date: Sep 30, 2024)*
- *Co-author of a German patent application: DE102023210179 A1 (Published: April 24, 2025, Application date: Oct 18, 2023)*
- *Co-author of a China patent application: CN119845289 A (Published: April 18, 2025, Application date: Oct 17, 2024)*
- *Co-author of a Japan patent application: JP2025071012 A2 (Published: May 02, 2025, Application date: Oct 16, 2024)*

LANGUAGES

- *Romanian: native*
- *English: B2/C1*
- *French: A2*