BOGDAN ION

Contact

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Education

In progress

Master of Autonomous Systems and Intelligent Robotics

KTH University, SWE
2024-2025

EURECOM University, FR
2025-2026

Bachelor of Computer Science

Babes-Bolyai University, RO
2021-2024

Skills

GNU/Linux

C/C++, C#, Java, Python & SQL

HTML, CSS & JavaScript

Node.js, Angular & React

Android Studio & Flutter

Docker

ROS2, GAML

Teamwork & Communication

Flexibility & Adaptability

Problem Solving & Creativity

About Me

I am a 22 year old Computer Science student and I'm currently looking for a master thesis opportunity. I have a 9 years' personal experience in coding and I've explored a lot of fields during these years. In the past 2 years I've been going more and more deep into Machine Learning and AI and I'm currently part of a research team in the field of Machine Learning applied in Medical images. In my free time, I manage one of my deployed apps (which is a hobby) and I do a lot of sports like bouldering and voleyball. I invite you to read more about me on my website!

Work Experience

INTERN EMBEDDED   2022

AROBS TRANSILVANIA SOFTWARE I 3 MONTHS

During the Internship I worked on a side project consisting of creating a 4 wheeled robot with different sensors which had at it's core 3 STM32 Nucleo Boards. The results can be seen on my GitHub page, /UniWork.

TEAM LEADER   2017-2021

IDEAL ELECTRONICS

Local robotics team, participating in First Tech Challenge Romania every year, winning multiple important awards for programming innovation. The precise domain was the ingenuity with which the robot was programmed during his autonomous period.

Projects

GRAPH-BASED EXTRACTION OF BRAIN VASCULAR NETWORKS

In this project we are trying to reconstruct tubular tree-like structures accurately. Such structures can represent blood vessels or airways. The model traces the centerlines (skeleton) of such structures and the main challenge is to keep their branching topology (how they connect and how they split). Work in progress!

OTHER PROJECTS

- LogiQ Puzzles - Mobile app fully deployed on both Android and iOS. 100% individual work. React native and Firestore were used in this.
- Autonomous Robot - ROS2 | Project over 2 semesters, videos on Github
- Bachelor Thesis - Custom PaaS | Built my own PaaS that allows configuration of projects to be deployed (Docker, MongoDB and Angular were used)

Additional information

VOLUNTEER   2021-2024

FIRST TECH CHALLENGE ROMANIA

For the same Robotics Competition, after I wasn't eligible to continue participating in it, I decided to continue helping the organizing of the competition, becoming an ALUMNI.

Hobbies: Football, Snowboarding, Bouldering, Rowing, Programming

Languages: Romanian (native), English (C2), French (currently taking classes, ~B1)