Pleșca Evelyn - Iulia

Location: Cluj-Napoca

LinkedIn | Github | Email: evelynplesca@gmail.com | Mobile: 0751538889

TECHNICAL SKILLS

Languages	:	C/C++, Python, MATLAB, Java, .NET, CSS, GraphQL
Dev Tools	:	Git, Jira, Xray, Cmake, GTests, Trace32, ROS2
Databases	:	SQL

EXPERIENCE

Working Student in Hardware Related Software Department   July 2023 - September 2024
Bosch

- Developed an **ECU Manager system** in **C** for an SoC-based Driving Assistance System.
- Designed my bachelor's thesis project: **Mapping Techniques using SLAM**.
- Built **unit tests** in **C++** for enterprise components.
- Mentored interns and configured a test bench for student projects.
- Mastered automotive communication protocols: **CAN**, **SPI**, **I2C**, and **UART**.

Software Developer Intern   November 2021 - January 2023
Micro Focus

- Owned and maintained two **Jenkins plugins**, managing releases and cross-team communication.
- Utilized **REST APIs** and **GraphQL** to manipulate databases.
- Fixed bugs and developed features in **Java**.

Working Student in Ultrasonic Department   July 2021 - October 2021
Bosch

- Created an LED matrix project and improved **C** and **Python** coding skills.
- Utilized tools like **CANape** and **CANoe** to optimize ultrasonic signal processing for AI algorithms.

EDUCATION

Technical University of Cluj-Napoca
Master in Communication Networks and Distributed Systems   *2024 - 2026*

Technical University of Cluj-Napoca
Bachelor of Automation and Applied Informatics, in English   *2020 - 2024*
Final Grade: 9.5

PERSONAL PROJECTS

Mapping Techniques using SLAM   *C, Python, Linux, ROS2*   Source Code

- Built a four-wheeled differential drive robot with an IMU, Lidar, and wheel encoder, controlled via a remote.
- Programmed an **NXP FRDM KE-16Z** microcontroller to use **I2C**, **UART**, and **PWM** for sensor data acquisition and motor control.
- Integrated a **Kalman Filter** to fuse IMU data for improved SLAM accuracy.
- Processed sensor data on a **Raspberry Pi 5** using **ROS2** and SLAM toolbox; visualized in **Rviz**.
- Tested sensor communication using an **oscilloscope**, **logic analyzer**, and checked battery states with a **multimeter**.

Achievements

NASA Space Apps Challenge　　　　*HTML, CSS, JavaScript, MATLAB, Python*　　　　Source Code

- Developed **AstroCAN**, a web app converting spatial images to sounds for meditation and education.
- Provided a solution for the **Immersed in the Sounds of Space** theme and designed the app.
- Focused on front-end development and educational content integration.

BattleLab Robotica　　　　*C, Solidworks, Git*　　　　Source Code

- Competed in a sumo robot contest with my team, **medaaTech**, in 2022.
- Contributed to component selection, assembly, and programming of the robot.
- Organized tasks using Gantt charts, managed social media, and communicated with sponsors.

Certifications

- Participated in the **Java** Course held by **Atelierul Digital pentru Programatori** and **Google** in 2021
- Obtained **C2** English level at Cambridge CAE exam