MARIAN FLAVIUS-ANDREI

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ABOUT ME

I'm a 3rd-year student at the Faculty of Automation and Computer Engineering at Politehnica University of Timișoara, passionate about both hardware and software. I learn best by building things - my portfolio includes everything from low-level system tools (C/C++, Assembly) to web apps with databases, OOP and networking. I am a fast learner looking for an opportunity where I can solve real technical problems, with a strong focus on Automotive Systems, Embedded Software, and OS development.

WORK EXPERIENCE

IA-PracticAC (EU-funded Project) | UPT   *13 Feb 2026 - Current*
Trainee / Program Participant
- Selected for a competitive professional development program focused on AI, Cybersecurity, and Cloud/Edge Computing.
- Engaged in specialized technical workshops designed to bridge the gap between academic concepts and modern tech industry requirements.

PROJECTS

System Monitor   *17 Feb 2026 - 22 Feb 2026*

Personal Project
- Developed a system tool for real-time tracking of CPU, memory, and hardware resources using C and Python.
- Implemented process management and data extraction algorithms within a Linux environment to ensure accurate performance metrics.

Link: https://github.com/FlaviusMarian27/System-Monitor

TicTacToe Game   *8 Feb 2026 - 14 Feb 2026*
Personal Project
- Built the core game mechanics and state management using C++ and strict OOP principles.
- Designed an interactive interface to handle user inputs and render the game board efficiently.

Link: github.com/FlaviusMarian27/TicTacToe

Exploding Kittens – Simplified Version   *16 Oct 2025 - 7 Jan 2026*
Academic Project
- Engineered the core game logic and implemented the strict rule set using C.
- Collaborated within a 3-member team to build a terminal-based LAN multiplayer game, featuring an Ncurses UI and cross-device Socket communication.

Link: github.com/FlaviusMarian27/ExplodingKittens

8086 Microsystem   *10 Oct 2025 - 16 Dec 2025*
Academic Project
- Designed the complete hardware schematic of an 8086-based microsystem using EasyEDA, detailing the integration of system components.
- Developed low-level routines in x86 Assembly and authored comprehensive technical documentation explaining the hardware-software interaction.

Link: github.com/FlaviusMarian27/Microsistem-cu-microprocesor-8086

Gym Manager Web Application

25 Apr 2025 - 21 May 2025

Academic Project
- Developed the frontend user interface using HTML, CSS, and JavaScript, ensuring a responsive and intuitive design.
- Collaborated with a teammate to integrate the UI with the backend, assisting in structuring the MongoDB database for server-side data management.

Link: github.com/FlaviusMarian27/GymManagerWeb

SystemC ALU

13 Apr 2025 - 7 May 2025

Academic Project
- Developed hardware simulation modules for core arithmetic operations (adder, subtractor, two's complement) using SystemC.
- Managed the final system integration within a 4-member team, successfully combining all individual components into the main functional ALU program.

Link: github.com/FlaviusMarian27/SystemC-ALU-Modules

EDUCATION

Bachelor's Degree in Software Engineering | UPT

Sep 2023 - Current

Faculty of Automation and Computer Engineering, Timișoara

High School Diploma | C.N.P. "Regina Maria"

Sep 2019 - Jun 2023

Mathematics and Computer Science Profile, Deva

SKILLS

SOFT SKILLS
- Team Collaboration & Communication
- System Integration & Cross-Functional Teamwork
- Technical Documentation
- Analytical Thinking & Problem Solving
- Fast Learner & Adaptability

HARD SKILLS
- **Languages:** C/C++, Java, Python, Assembly (x86), Verilog, HTML/CSS, JavaScript (Basic)
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Tools & OS:** Linux/Ubuntu, Git, EasyEDA
- **Core Tech:** Networking, OOP, Hardware Simulation, System Integration

LANGUAGES

- **Romanian:** Native
- **English:** Intermediate (B1)
- **French:** Beginner (A1)