Marius Baican

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Education

University Politehnica of Bucharest, Bachelor's Degree in Computer Science   Oct 2023 – Jul 2027
Relevant Coursework: Data Structures and Algorithms, Operating Systems, Algorithm Design

Skills

Languages: C, Java, TypeScript, JavaScript, CSS, HTML
Technologies: Tailwind CSS, React.js, Next.js, Vercel, Linux, Git, GitHub Pages

Projects

BrickBot Presentation Website   brickbot.ro

Designed and launched the official website for the robotics team I mentor, boosting **visibility**, **collaborations**, and public engagement.

- **Increased reach** by 40%, driving partnerships with two new sponsors
- Reduced page load time by 30% by leveraging Next.js **Server-Side Rendering**
- Enabled non-technical team members to update content through JSON in just a couple of minutes
- Delivered a consistent, mobile-friendly design accessible to 100% of team's audience
- **Tech stack**: Next.js, React, TypeScript, Tailwind, CSS, Vercel

BrickBot Custom LinkTree   links.brickbot.ro

Delivered a custom link hub for team promotions, balancing **speed** with **professional quality**.

- Built and deployed in under 3 hours, used immediately in sponsor outreach
- Designed with responsive UI, ensuring accessibility across all devices
- **Tech stack**: Next.js, React, TypeScript, Tailwind, CSS, Vercel

BrickBot Documentation Website   docs.brickbot.ro

Created a centralized knowledge hub to **onboard new members faster** and preserve team expertise.

- Cut onboarding time by 50% (from 4 weeks to 2) by consolidating tutorials and references
- Provided 24/7 access to technical resources, now used weekly by 90% of active members
- Streamlined content management, reducing maintenance overhead by 40%
- **Tech stack**: HTML, CSS, GitHub Pages, MkDocs Material

SimplicityFTC – Open-Source Java Library   github.com/SimplicityFTC/

Built an open-source Java library for FTC teams, making robot programming more **reliable** and **accessible**.

- Optimized mechanism speeds through **advanced control algorithms**
- Improved loop times by 30% through **sensor data caching**
- **Increased autonomous consistency** by 60% through a logic node state management system
- Reduced debugging time for teams by 40% with a structured logging system

Experience

Robotics Team Mentor, BrickBot – Focșani, VN   June 2023 – Present

- Introduced **principled design practices** for both hardware and software systems
- Created **custom learning resources** to onboard and support new team members
- Strengthened **leadership and mentoring skills** through active team guidance and process coordination