

Marius Baican

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Education

University Politehnica of Bucharest, Bachelor's Degree in Computer Science Sept 2023 – Present

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

Projects

BrickBot Presentation Website brickbot.ro

Designed and developed the official website for the robotics team I mentor, aimed at **attracting collaborators**, **increasing visibility**, and **presenting our projects to the public**.

- Built a **modular, component-driven architecture** with reusable, type-safe React components for scalability
- Leveraged **Next.js server-side rendering (SSR)** and static generation (SSG) for improved performance and SEO
- Integrated a **structured JSON content system** enabling easy content updates without code changes
- Implemented fully **responsive layouts** with Tailwind CSS, ensuring consistent design across devices
- Tech Stack: Next.js, React.js, TypeScript, Tailwind, CSS, Vercel

BrickBot Documentation Website docs.brickbot.ro

Developed a centralized documentation platform to onboard new members and **share essential knowledge**, **tutorials**, and **external resources** for our robotics team.

- Built the site using MkDocs and Markdown, creating a **lightweight, fast-loading documentation platform**
- Integrated GitHub Pages with automated CI/CD workflows, enabling **seamless deployment** of updates
- Organized all project and reference data using YAML, ensuring a **scalable and maintainable content structure**
- Tech Stack: Markdown, CSS, MkDocs, GitHub Pages

BrickBot Custom LinkTree links.brickbot.ro

Built a sleek, production-ready custom LinkTree in **just 3 hours**, balancing **speed** with professional **polish**.

- Delivered a fully functional, mobile-optimized website with clean UI and **responsive design** in record time
- Structured codebase and modern tech stack ensured **maintainability** despite the rapid turnaround
- Tech Stack: Next.js, React.js, TypeScript, Tailwind, CSS, Vercel

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

Built a **performance-oriented** robotics library for teams in the FIRST Tech Challenge, **simplifying** robot programming while integrating **powerful, competition-ready tools**.

- Implemented a structured logging system to capture detailed in-match and testing diagnostics
- Added an optimized read/write caching layer to **significantly reduce computational load**
- Designed and developed a command-based framework to promote **modular and readable** robot control logic
- Built a Bézier curve-based autonomous path follower capable of fast and reliable navigation

Technologies

Languages: C, Java, TypeScript, JavaScript, CSS, HTML

Technologies: Tailwind CSS, React.js, Next.js, Vercel, Linux, Git, GitHub Pages