



Emin Abdurahmanov

Embedded Systems & Full-Stack Developer

M.Sc. student in Embedded Intelligence with a background in Computer Science. Expert in logical problem-solving and full-stack development. Focused on designing secure, intelligent nanosystems and bridging the gap between hardware and software. Currently working on Hardware-Accelerated Deep Learning Deployment using VTA.

Contact

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Education

University of Siegen / EMINENT Consortium

Master of Science (M.Sc.) in European
Master on Embedded Intelligence
Nanosystems Engineering
2024 – Present

University of Economics and Human Sciences (Warsaw)

Bachelor of Computer Science
2020 – 2024

Skills

Technical Skills

- Web Development & Design
- Circuit Design & Simulation
- Data Structures & Algorithms
- Microcontroller Programming
- Hardware Security
- ICT Communication Protocols

Tools / Tech Stack

- Languages: JavaScript, HTML, CSS, C++, Python, Java, Node.js
- Software/Tools: LTspice, MATLAB, Linux/Unix, Arduino, ESP8266

Languages

- Azerbaijani (Native)
- English (C2 - Fluent)
- Turkish (C2 - Fluent)
- German (B2/C1 -Intermediate)
- Russian (B1 - Intermediate)

Work Experience

Web Developer | Silberbast Group (Warsaw, Poland)

Oct 2023 – May 2024

- Infrastructure & Hosting: Managed the full digital lifecycle, including domain migration, hosting, and SSL security implementation.
- Corporate IT Systems: Configured and maintained the company's email architecture and internal communication tools.
- Technical Support: Resolved hardware and software issues for the entire team, ensuring 100% operational uptime.

Web Programmer Intern | Life-Doc Maharram Valiyev (Gdansk, Poland)

Jul 2023 – Sep 2023

- Maintenance & Debugging: Identified and resolved front-end bugs and technical inconsistencies to ensure platform stability.
- UI/UX Updates: Implemented design modifications and layout improvements to enhance the user interface.
- Automation: Developed and deployed automated bots to streamline internal workflows and data processing.

Youth Leader | Euroweek (Klodzko, Poland)

Jan 2023 – Mar 2023

- Project Management: Led the end-to-end organization of international youth events, managing schedules, logistics, and group dynamics.
- Training & Mentorship: Facilitated workshops and training sessions for youth, focusing on leadership, teamwork, and cross-cultural communication.
- Intercultural Collaboration: Worked within a diverse international team to foster a global learning environment for participants

Projects

TinyML Human Activity Recognition

- Deployed a quantized, minimal CNN on a Bangle.js v2 smartwatch for real-time PAMAP2 sensor activity classification.

Hardware-Accelerated Deep Learning Deployment using VTA (current)

- Optimizing and deploying Deep Learning models onto FPGA-based hardware accelerators using the Versatile Tensor Accelerator framework for real-time applications.