



Khumar Huseynzade

M.Sc. Student (Eminent) | Aspiring Analog IC Engineer

- 10 January 2002
- Azerbaijan
- +49 1525 170 1212
- khumarhsd@gmail.com
- [Siegen, NRW, Germany](#)
- linkedin.com/in/khumarhuseynzade
- khumarhsd.norwayeast.cloudapp.azure.com

PROFESSIONAL SUMMARY

I am a technically focused student who enjoys learning through hands-on work and problem-solving. I like understanding how things work in practice, improving my skills over time, and contributing reliable, well-thought-out work as part of a team.

EXPERIENCE JOURNEY

M.Sc. European Master on Embedded Intelligence Nanosystems Engineering
(**EMINENT**)

Focus: Nanotech, Embedded Systems, Analog Design

Scholarship Holder

University of Siegen

Mar 2025 — Present

Hellenic Mediterranean University

Oct 2024 — Mar 2025

- Design and simulation (schematic and layout) of **6T SRAM** and **4T image pixel** circuits using **Cadence Virtuoso**.
- Schematic design and simulation of a **memristor-based perceptron** in **Cadence Virtuoso**.
- Fabrication of a **memristor** crossbar array in a cleanroom environment, including wafer cleaning, material deposition, and photolithography.
- Electrical characterization of **memristor** devices and graphene field-effect transistors using a probe station.

Software Developer

Jun 2023 — Feb 2025

Apex Web Solutions

UAE (Remote) Jan 2024 — Feb 2025

Qmeter

Azerbaijan (On-site) Jun 2023 — Feb 2024

- Developed and maintained websites using Next.js and React
- Applied SEO best practices and improved page structure and performance
- Worked with backend developers and QA engineers to integrate APIs, test features, and resolve bugs

B.Sc. System Engineering

Sep 2019 — Jun 2023

Azerbaijan State Oil and Industry University

Baku, Azerbaijan

- Graduated with honors (GPA: 90/100)
- Thesis: Integration of Smart Home and Internet of Things using Web Development

SKILLS

DESIGN & FABRICATION

Hardware Design:

Cadence Virtuoso

Verilog-A

VLSI Design

Analog Circuit Design

LTSpice

COMSOL

Laboratory Skills:

Device Fabrication, Characterization & Testing

Cleanroom Protocols

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SOFTWARE ENGINEERING

Web Development:

Next.js

React

Node.js

Express.js

Supabase

CSS/SCSS

Tailwind

Axios

Programming Languages:

JavaScript

TypeScript

Python

C++

Tools & Others:

Git

Azure Cloud

Jira

Bitbucket

Blender

Figma

CARLA

LANGUAGES

Azerbaijani

Native

Turkish

Professional

C2

English

Professional

C1 IELTS

Russian

Basic User

B1

German

Basic User

A1

HONORS & AWARDS

- Erasmus Mundus Joint Master's Scholarship

2024

European Commission

Embedded Intelligence and Nanosystems Engineering (EMINENT)
- Technest Scholarship

2021

Ministry of Transport, Communications and High Technologies

Full Stack Web Development

PROJECTS

FPGA-Accelerated Object Detection for Autonomous Driving

Embedded Systems

Collaborative project developing an FPGA-accelerated object detection system for autonomous driving using real-time embedded computing and CARLA simulation

Designed and implemented **FPGA** acceleration for real-time object detection

Integrated with **CARLA** simulation for autonomous driving scenarios

Optimized for **real-time performance** on embedded hardware

FPGA

Verilog

CARLA

Embedded Systems

Computer Vision

Real-time Computing

Portfolio Website

Web Development

Personal portfolio showcasing projects and experience with modern web technologies

Built with **Next.js 14** and **TypeScript** for type safety

Responsive design with **Tailwind CSS** and custom **SCSS**

Optimized for performance and SEO

Next.js

TypeScript

Tailwind CSS

SCSS

ENDORSEMENTS

"Ms. Huseynzade is extremely self-motivated individual with outstanding communication skills... She worked on the project alone and delivered consistently high-quality work, demonstrating great potential for growth within the company."

Fariz Aliyev

 — Regional Managing Director, Qmeter IT Services

"I can categorize her as one of the most hardworking and sincere students I have ever had the privilege to teach... I firmly believe that her vivacious energy, diligent work ethic, and passion will greatly benefit the academic community."

Prof. Latafat Gardashova

 — Head of Department of Doctoral Studies, Azerbaijan State Oil and Industry University

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