

Alp Eren Kiyak

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Professional Summary

M.Sc. student in Electronics Engineering at Istanbul Technical University with a strong interest in embedded systems, high performance computing and computer architecture. Demonstrated leadership as a team captain and equipped with solid technical skills in Verilog, SystemVerilog, and C/C++.

Experience

Research Assistant, Beykoz University – Istanbul, Turkey Mar 2025 – present

- Supporting faculty in laboratory instruction and student project supervision

Undergraduate Research Assistant, Istanbul Technical University – Istanbul, Turkey July 2024 – Jan 2025

- Supported students in embedded systems and computer architecture graduation projects
- Teaching assistant for “Introduction to Embedded Systems” (EHB 326E)
- Designed assignments and final projects; provided feedback and tutoring

Student Researcher, TUBITAK – Kocaeli, Turkey Jan 2024 – May 2024

- Researched PCIe 4.0 transaction layer
- Designed interface between FPGA and PCIe IP

Student Researcher, Tera Microelectronics – Istanbul, Turkey Sept 2023 – Jan 2024

- Designed communication protocols (I2C, UART, PCIe) for analog chips
- Developed synthesizable FSMs; gained experience with Cadence tools and PCIe specs

Student Researcher, TUBITAK – Kocaeli, Turkey Jan 2023 – Sept 2023

- Designed RV32IV Vector Load Store Unit
- Developed SDHD Host Driver and worked with AXI & Wishbone protocols

Education

Istanbul Technical University (İTÜ), MSc in Electronics Engineering – Istanbul, Turkey Feb 2025 – present

Istanbul Technical University (İTÜ), BSc in Electronics & Communication Engineering – Istanbul, Turkey Jan 2018 – Feb 2025

- Thesis: Implementation of Active Shield on PULPissimo
- Mate ROV International, 3rd Place (2021 & 2022)

Languages

English: C1

Turkish: Native speaker

Skills

Technical: Verilog, SystemVerilog, C/C++, Python

Tools: Vivado, Quartus