

Eralp Çelebi

Electrical-Electronics Eng. Student

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🌐 EralpCelebi



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Education

Sakarya University

Electrical-Electronics BEng.

Cumulative GPA: 2.70 / 4.00

Turkey, Sakarya

September 2022 • Present

Sakarya University

Physics BSci.

Cumulative GPA: 3.01 / 4.00

Turkey, Sakarya

September 2023 • Present

Tomáš Bata University

Erasmus+ Exchange Student

Czechia, Zlín

January 2025

Experience

GESK Technology

Embedded Software Engineering Internship

- Worked on the *Raspberry Pi 3 B+* platform.

- Developed embedded operating systems for the said platform using tools such as **The Yocto Project**, **GNU Make** and using the **C Programming Language**.

Turkey, Istanbul

August 2024

EasyEDA

Official Certified Campus Ambassador

- Introduce students to professional design tools for electronics and PCB development.
- Organize workshops and learning opportunities to strengthen practical skills.
- Support peers in connecting classroom knowledge with real-world engineering practices.
- Foster an innovative and collaborative electronics community on campus.

Turkey, Sakarya

September 2025

Skills

Languages Turkish (Native), English (Professional), Czech (Entry), German (Entry)

CAD Software EasyEDA, KiCAD, Altium(Entry)

Programming Languages C, Rust, Verilog, Assembly(x86,ARM)

Projects

Mainlining Linux on Android Devices

Embedded Development

- Worked on Android devices such as,
 1. *Xiaomi Mi 8* • Qualcomm SDM845 Snapdragon 845
 2. *Xiaomi Redmi Note 12* • Qualcomm SM4375 Snapdragon 4 Gen 1
 3. *Xiaomi Pad 5* • Qualcomm Snapdragon 860
- Ported Mainline Linux to said devices using tools such as **kbuild**, **GNU Make** etc.

🌐 EralpCelebi/linux_*

aarch64

Porting Downstream Android Drivers to UEFI

Embedded Development

- Ported the downstream drivers for the fast-charging integrated circuit *BQ2597x* for the *Xiaomi Pad 5*.
- Added ACPI descriptors using the **ACPI Source Language (ASL)** to the community maintained secondary UEFI bootloader.

🌐 EralpCelebi/MU-sm8150pkg

aarch64, UEFI

Factory Automation-Telemetry System

TÜBİTAK 2209-B

Circuit Design/Embedded Development

Rust, EasyEDA

- A distributed control and journaling system for factory environments designed with compatibility in mind. Using Cortex-M4 microcontrollers at heart, provides an affordable yet robust experience.

Linux Containerization Solution

 EralpCelebi/spinup

Software Development

GoLang

- Command-line tool that allows users to quickly create local containers using Linux namespaces.

Reference Bootloader

 EralpCelebi/damascus-boot

Embedded Development

NASM, GNU Make

- A bootloader written purely in assembly targeting the `x86_64` architecture. It's ultimate purpose is to be an educational resource and is well documented.

Programming Language

 EralpCelebi/zet-redone

Software Development

Python, LLVM

- A statically typed and compiled systems programming language using the `LLVM` compiler backend infrastructure with the aim of unifying winning aspects of the most popular programming languages.

Operating System

 EralpCelebi/oasys

Embedded Development

CMake, C, UEFI

- A UN*X-like operating system with a modern build system.

Certificates

Creating an API server in Rust with Actix, SQLx and JWT

June 2025

SQL and PostgreSQL: The Complete Developer's Guide

May 2025

MATLAB Onramp

January 2024

Experienced In

Web Development (Typescript)

React (Next.js), Drizzle, Clerk, Vercel, ChakraUI, TailwindCSS, PostgreSQL, Docker, Docker Compose, Posthog

Web Development (Golang)

Chi, Gorilla, Goose, PostgreSQL, htmx, Alpine.js, TailwindCSS, JWT, Docker, Docker Compose

Back-end Development (Rust)

Actix, Tokio, SQLx, PostgreSQL, Docker, Docker Compose, JWT