Eralp Çelebi

Electrical-Electronics Eng. Student

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Education

Sakarya University   Turkey, Sakarya
Electrical-Electronics BEng.   September 2022 • Present
*Cumulative GPA: **2.70 / 4.00***

Sakarya University   Turkey, Sakarya
Physics BSci.   September 2023 • Present
*Cumulative GPA: **3.01 / 4.00***

Tomáš Bata University   Czechia, Zlín
Erasmus+ Exchange Student   January 2025

Experience

GESK Technology   Turkey, Istanbul
Embedded Software Engineering Internship   August 2024
- 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**.

Skills

Languages	Turkish (Native), English (Professional), Czech (Entry)
CAD Software	KiCAD, Altium(Entry)
Programming Languages	C, Rust, Golang, Typescript

Projects

Mainlining Linux on Android Devices   ⚙ EralpCelebi/linux_*
Embedded Development   aarch64
- 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.

Porting Downstream Android Drivers to UEFI   ⚙ EralpCelebi/MU-sm8150pkg
Embedded Development   aarch64, UEFI
- 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.

Factory Automation–Telemetry System

TÜBİTAK 2209-B

Circuit Design/Embedded Development

Rust, KiCAD

- 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 infastructure 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