

# Eralp Çelebi

Electrical-Electronics Eng. Student

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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

### Tomas Bata University

Erasmus+ Exchange Student

Czechia, Zlín

September 2023

## 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

## Certificates

SQL and PostgreSQL: The Complete Developer's Guide

May 2025

MATLAB Onramp

January 2024

## Skills

**Languages** Turkish (Native Speaker), English (C1), German (Entry), Czech (Entry)

**Programming Languages** C, C++, Rust, Golang, Python, Kotlin, Typescript, SQL

## Contests

### CodeFest

Contester in the annual festival hosted by the *Üsküdar American High School*.

Turkey, Istanbul

2019

### Hisar Coding Summit

Contestor in the annual coding summit hosted by *Hisar Schools*.

Turkey, Istanbul

2019

### PiWars Turkey

Contestor in the annual robotics competition hosted by *Hisar Schools*.

Turkey, Istanbul

2019

# Projects

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## 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.

## Artificial Intelligence Command-line Tool

 [EralpCelebi/fir](#)

Software Development

Golang

- Uses OpenAI's ChatGPT API's to run mutable commands in local shells according to user specifications, isolated using Linux's container infrastructure.

## 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.

# Experienced In

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## 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