

Eralp Çelebi

Electrical-Electronics Eng. Student

Eyüp Sultan Blv. Hersek Sit. No:42/3

☎ (+90) 506 124 04 68

✉ eralp.celebi.personal@gmail.com

🌐 EralpCelebi

🌐 Eralp Çelebi

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

Istanbul University Physics Workshop

February 2024

MATLAB Onramp

January 2024

Skills

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

Programming Languages C, C++, Rust, Golang, Python, Kotlin, 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

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.