

EMRE ÇAPAR

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PROFESSIONAL SUMMARY

Final-year Computer Engineering student specializing in Python programming, embedded systems, and microcontroller development (Arduino, ESP8266). Experienced in desktop/mobile applications, database systems, and low-level programming. Strong communication, presentation, and problem-solving skills gained through technical projects and creative work. Currently developing PromoBot, a customer-engagement rover integrating Arduino, ESP-01, Python Flask, and a web interface. Seeking roles in Python development, embedded systems.

EDUCATION

Izmir Institute of Technology, Izmir, Turkey

B.Sc. in Computer Engineering | Oct 2020 – Present

University of Primorska, Koper, Slovenia

Computer Science, Erasmus+ Exchange Program | Feb 2025 – Jul 2025

PROJECTS

PromoBot – Autonomous Rover (Arduino, ESP-01, Python, Flask, HTML/CSS)

- Developing a customer-engagement rover with wireless control and a Flask-based web interface.

Space Bandits & Tactica Eternum (Python, Pygame)

- Built 2D game systems demonstrating game logic, OOP, and event handling.

FocusTimer (Python, Kivy)

- Designed a productivity timer application with a lightweight and responsive UI.

8051 Microcontroller Projects

- Implemented a digital thermometer and calculator using 8051 microcontroller.

Pharmacy Database System (Oracle Apex)

- Developed a functional database system with CRUD operations and data validation.

TECHNICAL SKILLS

Programming: Python, Java, C++, C#, JavaScript, Assembly, SQL

Embedded Systems: Arduino, ESP8266, ESP-01, 8051 Microcontroller

Frameworks & Tools: Flask, Pygame, Kivy, Firebase, Oracle Apex, ROS

Concepts: OOP, Microcontroller Programming, DBMS, Network Protocols, UI/UX Design

EXPERIENCE

Various Roles – General Work Experience

- Over four years of professional experience in multiple industries.
- Developed reliability, communication, teamwork, and workplace adaptability.

LANGUAGE SKILLS

Turkish – Native

English – C1 (Advanced)