

# MERT DIŞKAYA

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I am Mert Dişkaya, a passionate and self-motivated individual with a strong interest in computers and technology. I'm dedicated to continuous learning and self-improvement, particularly in the field of embedded systems. I am easy to communicate and suitable for teamwork, and I am eager to advance my skills and career as an embedded system engineer.

## EDUCATION

### ELECTRICAL ELECTRONICS ENGINEERING

Graduate Education

University of Kırıkkale| 2019 - 2023

GPA: 2.87

### ERASMUS+

ERASMUS+, VSB – TECHNICAL UNIVERSITY OF OSTRAVA – VSB-TUO

## EXPERIENCE

### EMBEDDED SOFTWARE ENGINEER

Geontek Technology January 2024 - Present

- Developed a CNC control interface using Python (Kivy), JavaScript (Electron, Vue.js, Node.js), and C++ (GTK).
- Explored different technologies to create an optimized and user-friendly interface, gaining experience in embedded systems development and user experience improvement.
- Worked on serial communication, developing optimized algorithms for data reading and transmission.
- Optimized the project to run on Linux and Raspberry Pi, developing efficient software with minimal hardware requirements.
- Used OpenGL for rendering 3D models of parts to be cut, enhancing user experience

### INTERN

Alfa Solar Enerji 2023 Fall

### PROJECT EMPLOYEE

Nurol Teknoloji 2023 (Online)

### INTERN

Gempa Elektro Mekanik Mühendislik Ltd. Şti. 2023 Summer

## PROJECTS

### Hand-Controlled Car Project:

Developed a hand-controlled car using ESP8266 and MPU6050 gyro sensor. Utilized two ESP8266 modules communicating via Esp-now protocol. The sender ESP mapped sensor values and sent them to the receiver ESP, which adjusted motor speed based on the data. Project Video

### Smart Pet Food Bowl Project:

Created a smart pet food bowl with an ESP32-CAM, ESP8266, L298N motor driver, and Python OpenCV. The ESP32-CAM captured images processed by a Python script. When a cat was detected, the ESP8266 triggered the food dispenser via PySerial.

## CAPABILITIES

- |                               |              |
|-------------------------------|--------------|
| • Python                      | • ESP8266    |
| • JavaScript                  | • Arduio     |
| • C++                         | • AutoCAD    |
| • Linux System Administration | • Proteus    |
| • Glade                       | • Office 365 |

## CERTIFICATES

- GNU/Linux System Administration Level 1 - 2023 (LKD)
- Advanced Python programming - 2022 (BTK)
- Sporting Drone License - 2021
- Certificate in Instrument Teaching (Bağlama) - 2011