



# Ömer Kenan Uçmaklıoğlu

Electrical and Electronics Engineer



## Profile

I'm Ömer Kenan, an avid learner with a passion for swimming and chess. Currently, I'm dedicated to mastering Japanese as part of my ongoing self improvement journey.



## Work experience

2022

### Internship

*Electrical and Electronics Engineer at Hacettepe University*

I successfully completed my mandatory internship, under the guidance of Dr. İsmail Uyanik. Throughout this internship, I actively participated in a real-time signal detection project, making use of the BASYS-3 FPGA Board.



## Education

2023

↑  
2016

### Hacettepe University

*Department of Electrical and Electronics Engineering*

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## Projects

2023

### Wearable Sensor-Based System for Detecting Neck and Back Posture Problems

I played a key role in developing a Wearable Sensor-Based System for detecting neck and back posture issues, showcasing my expertise in embedded programming and healthcare technology.

2023

### Flappy Bird Game With FPGA

My team and I developed a Flappy Bird game using VHDL programming on the DE1-SoC board. The game interfaced with a monitor via VGA connections for visual display and utilized buttons on the board for user input control.

2022

### Load Optimization System With FPGA

This project involves two DC motors. One is controlled by an external signal decoded by the FPGA system, which optimizes the performance of the second motor based on load speed. Real-time RPM data is transmitted to a computer for continuous monitoring via UART.

2022

### MSP430 - MQTT Project

I integrated three MSP430 microcontrollers for my project: one collected environmental data, the second analyzed and sent it to the server, and the third displayed it on an LCD screen.



## Contact



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### Website

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### GitHub

<https://github.com/omerkenan>



## Skills

- Embedded C
- Python
- API
- HTML
- CSS
- JavaScript
- Quick Learning
- Problem Solving
- Effective Communication
- Adaptability
- Teamwork



## Programs

- MATLAB
- ElectricVLSI
- LTSpice
- STM32CubeIDE
- Code Composer Studio
- Vivado
- Quartus



## Languages

English

Fluent

Turkish

Fluent

Japanese

Basic

2019



## **Resistor Value Calculator With Assembly x86**

I created a resistor value calculator in x86 assembly language with a user-friendly menu and detailed instructions. Its exceptional speed is due to low-level programming. You can download and use the program from my [GitHub repository](#).

2017



## **Py-Chat, Chat Program With Python**

It's a Python chat app using PyQt5 and socket programming. PyQt5 was evolving during the project, so some adjustments for compatibility may be needed. You can find the open-source project on my [GitHub profile](#).