Kerem Emre

İstanbul keremmre89@gmail.com 0537 029 83 72

Kerem Emre Kerem Emre

Summary

- I am a graduate of Electrical and Electronics Engineering. As an attentive and determined person, I am looking for a role where I can improve myself and learn new information from experienced people. I am a person who is prone to group work, harmonious and communicative.

Education

MEF University, Electrical and Electronics Engineering — Sep 2021 - July 2025

- GPA: 2.82/4.0

Minor **MEF University**, Data Science and Artifical Intelligence — Feb 2023 - July 2025

Minor **MEF University**, Computer Engineering — Sep 2024-

Work Experience

ISKI, Electronics and Communications System Intern — Kagıthane, Istanbul, June 2024 – July 2024

- Examination of analog, digital and DECT phones of the head office and all branches, observation of internal numbers and the control panels and the switchboards to which they are connected
- Observation and field application of electronic systems such as security cameras, license plate recognition systems, fire extinguishing plants

ONVO Electronic, Engineering Intern — Buyukcekmece, Istanbul, June 2025 – July 2025

- Observation of the production process in ONVO Electronics factory and production research, and parts recognition of electronic devices

Salcomp Plc, Test Engineer - Full Time — Avcılar, Istanbul, October 2025 – December 2025

- Testing the electronic products in the factory, providing test training to operators, performing the necessary maintenance of test devices and repairing them when necessary
- Preparing and monitoring daily, weekly and monthly reports regarding the status of devices and products in the factory

Projects

Speed control of a DC motor and Servo Position control

- This project involves the realisation of dynamic simulations of a DC motor system in Simulink/MATLAB environment. In this context, a servo position control and a DC motor speed control will be realised.
- Tools Used: MATLAB

Smart Security Watcher For Drivers

- A project design that instantly reports the driver's distance to surrounding vehicles while driving and parked via Bluetooth. When other vehicles approach your vehicle, 3 different messages are sent to your phone via Bluetooth, depending on the distance. Also the system informs the driver about overtaking situations while driving with the LED integrated into the project.
- Tools Used: C++

Design and Prototyping of an Ornithopter for Surveillance Purposes (Supported by TUBITAK 2209-B program)

- The project aims to develop a biomimetic flapping wing unmanned aerial vehicle (UAV) or ornithopter, which can perform high maneuverability and low detectability operations for surveillance and intelligence purposes.
- Tools Used: Python, SolidWorks

ONVO Electronics Fault Record Management System

- ONVO Fault Record Management System is a central platform developed to electronically record and classify faults that occur after production or use of ONVO products, to ensure the flow of information between relevant departments and to monitor fault resolution processes.
- Tools Used: Python, HTML, SQL

The Asynchronous Motor Control Project

- An automated system was developed utilizing a single piston and a fixed-speed motor to perform precise drilling operations. In this setup, the piston is used to push the drilling device downward, allowing the motor to drill objects as it rotates at a constant speed. After the drilling is completed, the piston is retracted to its original position, and the motor is stopped, ensuring efficient and accurate performance.
- Tools Used: PLC

FPGA-Based Temperature Monitoring

- This project aims to develop an FPGA-based temperature monitoring and threshold value warning system. The analogue temperature data obtained from the LM35 temperature sensor is converted into digital data via the ADC0831 integrated circuit and processed by the FPGA on the DE1-SoC development board.
- Tools Used: Verilog, Quartus

Skills

Programming and Data: Python (Pandas, NumPy, PyTorch, Scikit-learn), C++, SQL, MATLAB, Java
Web and Interface: Next.js, React, Tailwind CSS, HTML/CSS
Tools and DevOps: Git/GitHub, Docker, Prometheus, Grafana, SolidWorks
Embedded Systems and Automation: PLC, Verilog, Quartus, TCP/IP
Language Skills: English (Professional working proficiency), German (Elementary proficiency)

Certificates

YetGen

- Attended 124 hours of training to learn 21st- century competencies, businessworld, entrepreneurship.

Yapay Zeka ve Teknoloji Akademisi

- Successfully completed all his 8-month training and qualified to graduate by developing a project at the Graduation Bootcamp.

References

- Bayram Öztürk, ONVO Electronics Factory Deputy Manager
  +90 535 893 23 32, bayramozturk@onvo.com.tr
- İbrahim Ulusoy, ONVO Electronics Production Engineer
  +90 535 686 86 27, ibrahimulusoy@onvo.com.tr
- Hakan Aydınay, Business Development Officer
  +90 542 242 43 62, hakan.aydinay@beko.com.tr
- Kürşat Bıyık, Salcomp PLC Test Engineer Team Leader
  +90 507 132 67 03, krstbyk1994@hotmail.com