



MUSTAFA CIRAK

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[linkedin.com/in/cirakmustafa](https://www.linkedin.com/in/cirakmustafa)

A highly motivated and dynamic electrical and electronics engineering student interested in communication systems and embedded systems, seeking a rewarding position with a progressive organization. I pride myself on my ability to build strong social and professional relationships and know how to bring the best out of the team I work in.

EDUCATION

Bachelor's | *Major: Electrical and Electronics Engineering*

Middle East Technical University (4th Grade)

Awarded METU HONOR

Aug. 2020 – Current

Ankara, Turkey

Fall 2020-2021

High School

Aydin Science High School

Aug. 2015 – June 2019

Aydin, Turkey

PROJECTS AND RESEARCH

FPGA Implementation of a 2D Strategy Game

Middle East Technical University

Spring 2022-2023

Coded the game logic and contributed to the VGA display part of the tic-tac-toe like game using an FPGA board. Coded the game using SystemVerilog/VerilogHDL.

Photophone

Middle East Technical University

Fall 2022-2023

Designed and implemented an optical wireless communication system using analog circuitries.

Analog Baseband Tunable Receiver

Middle East Technical University

Spring 2021-2022

Made a transmitter which produces different frequency tones and collected them together, and a tunable receiver and played the received tone with a speaker.

Measuring of Distance of a Light Source Using LDRs

Middle East Technical University

Fall 2021-2022

EXPERIENCE

Aselsan

Internship

July 2023 – August 2023

Ankara, Turkey

Developed an aiming algorithm using MATLAB. The algorithm also includes the ballistics. The algorithm is modular and can be used for all kinds of turret systems. Furthermore, created a GUI for the sake of usefulness of the algorithm

Büyütech

Embedded Software Internship

September 2022 – September 2022

Ankara, Turkey

Became familiar with the Linux, bash scripting and embedded software systems.

COURSES AND CERTIFICATES

C Programming For Beginners - Master the C Language

Through Udemy

September 2022

Python 101 for Data Science

By IBM through Cognitive Class

April 2021

COMMUNITY INVOLVEMENT

IAESTE METU LC

Career Events Coordinator

October 2022 – May 2023

Ankara, Turkey

Organizator of career related events. Dealt with the whole aspects of an organization. Helped our students to communicate with companies.

TBD Genç Ankara

Member

October 2022 – May 2023

Ankara, Turkey

METU Powerlifting

Member

Spring 2022 – Current

Ankara, Turkey

SKILLS

Languages: English (C1), German (A1), Turkish (Native)

Programming: Python (NumPy, SciPy, Matplotlib, Pandas), MATLAB, C Programming, C++, VerilogHDL, Linux

Modelling: Siemens NX Unigraphics, LTSpice

INTERESTS- HOBBIES

Powerlifting

Chess

Mountaineering

Music Instruments: Baglama, Violin