

BURAK ERDIL BIÇER

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EDUCATION

Istanbul Technical University

Electronics and Communications Engineering
GPA : 3.52

2020 – 2025
Istanbul, Turkey

Istanbul Technical University

Aeronautical Engineering - Double Major
GPA : 3.35

2021 – 2026
Istanbul, Turkey

WORK EXPERIENCE

Undergraduate Research Assistant

Bountenna Antennas & Propagation Research Lab.

November 2022 – Present
Istanbul, Turkey

- Developed a deep understanding of the principles of electromagnetic wave propagation and antenna design. Contributed to the development of biodegradable sensor and phantom design for IoHT applications.
- Gained expertise in using programs such as ANSYS HFSS and CST to simulate and analyze electromagnetic wave propagation and antenna performance. Additionally, used LaTeX to create technical reports and publications.

Machine Learning Engineering Intern

Baykar Technologies

August 2023 – September 2023
Istanbul, Turkey

- Utilized computer vision libraries, including OpenCV and TensorFlow, to develop robust algorithms for object detection, recognition and quality control to improve the efficiency of the production line.
- Worked proficiently in Python, utilizing Jupyter Notebooks and IDEs such as PyCharm for coding, debugging and testing computer vision algorithms.

Test Engineering Intern

Aselsan

June 2023 – July 2023
Ankara, Turkey

- Engaged in a project involving LoRa E32 modules and Arduino Uno to establish long-range communication. Developed a circuit ensuring efficient interaction between the modules.
- Created an intuitive C# interface for easy customization of LoRa E32 parameters including UART rate, parity, and power. Performed thorough testing to confirm stable communication.

Software Engineering Intern (Long-Term)

Turkish Aerospace

November 2022 – May 2023
Istanbul, Turkey

- Developed bootcamp applications in C and C++ to enhance my programming skills, gaining valuable hands-on experience in software development.
- Exposed to the aerospace industry and its software requirements, broadening my knowledge of the applications of C and C++ in this specialized domain. Participated in and successfully completed a series of certifications in machine learning and systems engineering.

ACTIVITIES

Editor in Chief

arı24 Student Media

September 2022 – June 2023
Istanbul, Turkey

- Organized editorial content and in charge of conducted corporate identity to relay information. Aslo, in charge of sponsorship deals with student clubs and cooperate firms.

Coordinator

World Cube Association

August 2017 – September 2021
Los Angeles, CA

- Organized and participated in the official World Cube Association competitions in many countries such as Turkey, Croatia and Italy. Arranged competition venues and got sponsorship deals. Achieved success in international competitions and broke many Turkish national records.

CERTIFICATIONS

Introduction to Machine Learning | Turkish Aerospace

May 2023

Machine Learning Specialization | DeepLearning.AI

September 2023

SKILLS

Programming Languages: Python, C, C++, C#, MATLAB

Software Tools: LTspice, ANSYS HFSS, CST, CATIA, MS Office

Languages: Fluent English and Turkish, Beginner German and French