

Alp Bora Kirte

Residence/domicile: Rotterdam, Netherlands

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LinkedIn: <https://www.linkedin.com/in/alphorakirte>

Place of birth: Izmir, Turkey * *Date of birth:* 16-05-2000

Education

Electrical and Electronics Engineering
Bachelor's degree program

TOBB Economy and Technology University
September 2019 - May 2025

High School Diploma
High school's diploma program
Final grade: 92.5/100

Bornova Anatolian High School
September 2014 - June 2018

Work experience

YapıKredi Teknoloji
Software Engineering Intern

December 2023 - February 2024
Remote

- Completed my internship in POS Management Application Development department. During my internship, I gained hands-on experience in utilizing Feign Client for inter-service communication using Java in IntelliJ IDE.

Trueyogi
Machine Learning Intern

June 2023 - September 2023
Ankara, Turkey

- Performed semantic segmentation on wrinkle dataset for facial wrinkle detection and classification on acne dataset for acne detection. Also studied on wrinkle detection techniques and transfer learning.

Esen System Integration

May 2022 - September 2022
Ankara, Turkey

Part-Time "Signal Processing System Engineer" IOT Department

- Worked on "Device Identification Based on RF Fingerprinting" project for both Wifi and LoRa.
- Utilized MATLAB to generate synthetic Wifi signals
- Employed MATLAB to detect and analyze chirp signals transmitted from a LoRa transmitter.
- Participated in daily Scrum meetings and regular Sprint Retrospectives after each Sprint.

January 2022 - April 2022

Long Term Intern

- Collected and analyzed Wifi signals with SDR to create a dataset to be used in machine learning algorithms and worked with Python programming language to do burst segmentation.

ETU Callisto Model Satellite Team

February 2022 - September 2022
Ankara, Turkey

Communication and Data Processing Engineer

- Worked with my teammates for Teknofest model satellite competition in wireless communication field. Our main goal was to successfully achieve transferring telemetry and video data to ground station using XBee devices.

Elective Courses & Projects

ELE 495: Graduation Project
TOBB ETU, Ankara, Turkey

January 2024

In the context of the group project, a conveyor belt and a USB camera system connected to the Jetson Nano Developer Kit were utilized to recognize and identify fruits passing through the belt using SSD-MobileNet. The information regarding their count and types was transferred to a http server. In this context, image processing, deep neural network models, control systems, and communication protocols were employed.

ELE 504: Digital Control <i>TOBB ETU, Ankara, Turkey</i>	<i>January 2024</i>
ELE 515: Computer-Aided Control Systems with MATLAB <i>TOBB ETU, Ankara, Turkey</i> Designed a PID controller for two wheeled vehicles based on kinematic bicycle model as project.	<i>September 2023</i>
ELE 474: Digital Signal Processing <i>TOBB ETU, Ankara, Turkey</i> Designed a JPEG Image Compression and Decompression Algorithm on Python using Discrete Cosine Transform, Quantization, Zigzag scan, Run Length Encoding and Huffman Encoding.	<i>September 2023</i>
YAP 470: Machine Learning <i>TOBB ETU, Ankara, Turkey</i> Participated in Rainforest Connection Species Audio Detection Competition for the course project. Built a CNN model to detect and classify bird and frog species in tropical soundscape recordings using Mel Spectrogram.	<i>June 2022</i>
ELE 565: Fundamentals of Radar Signal Processing <i>TOBB ETU, Ankara, Turkey</i> Generated long binary codes with good Autocorrelation Peak Sidelobe Levels using Logistic-Map Equation and Nested Barker 13 on MATLAB for course project.	<i>June 2022</i>
ELE 561: Wireless Communication <i>TOBB ETU, Ankara, Turkey</i>	<i>June 2022</i>

Technical skills

Programming Languages/Tools	C, C++, Python, Java, Shell Script, Git, Linux, CUDA, MATLAB, Simulink, Verilog, GNU Radio, Spice, Arduino, STM32CubeMX
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Language proficiencies

English	Professional working proficiency
French	Limited working proficiency (DELF A2)
German	Elementary proficiency

Memberships

TOBB ETU Artificial Intelligence Community	<i>September 2022 - present</i>
IEEE TOBB ETU Student Branch	<i>September 2019 - September 2020</i>
TOBB ETU Fencing	<i>September 2019 - September 2020</i>

Conferences & Symposiums

First Electronic Warfare Symposium <i>Turkey Secretariat of Defence Industries</i>	<i>December 2023</i>
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Licenses & Certifications

Ctrl+ Future Advanced Junior Backend Developer Bootcamp <i>KOÇ Holding - Elev8 Education</i>	<i>October 2023</i>
PyTorch for Deep Learning in 2023: Zero to Mastery <i>Udemy</i>	<i>October 2023</i>
Quantum Computing & Programming Bronze-Qiskit <i>QTurkey</i>	<i>July 2023</i>
Fundamentals of Accelerated Computing with CUDA C/C <i>NVIDIA</i>	<i>November 2022</i>
Basic and Advanced Level Simulink Training <i>Figes Inc.</i>	<i>February 2022</i>
Automotive Summer Camp <i>Turkey Automotive Manufacturers' Association</i>	<i>June 2021</i>
Turkish Sailing Federation Athlete License <i>Ministry of Youth and Sports of the Republic of Turkey</i>	<i>June 2012 - March 2019</i>