

# Ali Alptuğ Emirdağ

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## Education

09.2021 – 2024 Ankara, Turkey	<b>Master of Science, TOBB University of Economics and Technology</b> Graduate School of Engineering and Science Computer Engineering Master's Programs (Currently, I am in the Scientific Preparation Program, taking undergraduate courses)
2017 – 05.2021 Ankara, Turkey	<b>Bachelor of Science, TOBB University of Economics and Technology</b> Faculty of Engineering Department of Electrical and Electronics Engineering 3.40/4.00

## Professional Experience

10.2021 – present Ankara, Turkey	<b>Software Engineer, MilSOFT Software Technologies</b> <ul style="list-style-type: none"><li>• Participated in development, maintenance and testing activities of Tactical Data Link processor application using C++ and Java with DDS based publish-subscribe communication.</li><li>• Worked on modernization of legacy systems, including language standards and architectural design changes.</li><li>• Supported applications on Linux and Windows operating systems.</li></ul>
06.2021 – 10.2021 Ankara, Turkey	<b>System/Test Engineer, MilSOFT Software Technologies</b> <ul style="list-style-type: none"><li>• Participated in testing activities, such as creating automated tests, of Tactical Data Link processor application using internal testing tools.</li></ul>
01.2021 – 04.2021 Ankara, Turkey	<b>Embedded Systems Engineer Intern, ANOVA R&amp;D Technologies Industry And Trade Inc. Co.</b> <ul style="list-style-type: none"><li>• Designed a user interface with PyQt5 that configures and runs a board with a microcontroller via using the serial port.</li><li>• Designed a motor driver circuit that can be controlled via a microcontroller.</li></ul>
01.2020 – 03.2020 Ankara, Turkey	<b>Algorithm Developer Intern, Esen System Integration</b> <ul style="list-style-type: none"><li>• Worked on adapting the array signal processing algorithms on moving platforms on MATLAB.</li><li>• Designed a simulation that models the operation of direction-finding algorithms on a moving platform and created a user interface for this simulation using MATLAB App Designer.</li></ul>

04.2019 – 08.2019

Ankara, Turkey

**Embedded Software Engineer Intern, ROKETSAN A.Ş.** [!\[\]\(3dfb8d66e81160ad61421a3452093d1b\_img.jpg\)](#)

- Designed the embedded software of the board that has the STM32 microcontroller on it using the C programming language, STM32CubeMX program and HAL library from the STM32 family.

## Skills

### C++

C++ 11, C++ 14, C++ 17

### MATLAB

Signal Processing, Image Processing, MATLAB App Designer

### C

Embedded Software (ST's HAL Library)

### Python

OpenCV, CatBoost, XGBoost, LightGBM, PyQt5

### Java

Swing, Spring

## Courses

**BİL 470: Machine Learning**, *TOBB University of Economics and Technology*

**ELE 473: Digital Image Processing**, *TOBB University of Economics and Technology*

**ELE 474: Digital Signal Processing**, *TOBB University of Economics and Technology*

## Certificates

- Accelerated Computer Science Fundamentals Specialization [!\[\]\(0d11e49c561fa84a6677bf9d4d629be0\_img.jpg\)](#)
- Machine Learning with Python - IBM [!\[\]\(ef9c29ef42528ebedc716879fbee1e10\_img.jpg\)](#)
- Databases and SQL for Data Science - IBM [!\[\]\(6a2e00d457a4a9d0194df568dc2b3699\_img.jpg\)](#)

## Languages

### Turkish

Native proficiency

### English

B2, TOEFL ITP: 503

### German

A2

## Interests

- Swimming
- Diving
- Cycling
- Travelling
- Listening to music
- Making tank and plane models