

# Alp DURSUNOĞLU

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## EDUCATION

### Universitat Politècnica de Catalunya (UPC)

*MSc in Automatic Systems and Industrial Electronics Engineering*

Sep 2025 - Present

Barcelona, Spain

### Bilkent University

*B.S in Electrical and Electronics Engineering*

Sep 2021 - Jun 2025

Ankara, Turkey

**Related Coursework:** Introduction to Programming in Python, Introduction to Digital Circuit Design, Analog Electronics, Microprocessors, Circuit Theory, Electronic Circuit Design, Signals and Systems, Probability and Statistics, Feedback Control Systems, Statistical Learning and Data Analytics.

**Favorite Fields:** Embedded Programming, Machine Learning, Artificial Intelligence, Probability and Statistics, Robotics.

## EXPERIENCE

### Aselsan

*Embedded Systems Engineer – Part Time*

Nov 2024 – July 2025

Ankara, Turkey

-Worked on developing a reliable communication system working between STM32 development boards.

### Freudenberg Sealing Technologies

*Embedded Systems & Computer Vision Intern*

Aug 2024 - Sep 2024

Bursa, Turkey

-Developed a magnetic encoder project with an Arduino UNO. Devoted some time to exploring and gaining a deeper understanding of computer vision through detailed research.

### Karel

*Embedded Systems & Machine Learning Intern*

Jun 2023 - Jul 2023

Ankara, Turkey

-Worked on Real Time Operating Systems (RTOS), wrote sensor libraries in Embedded C with an STM32 Microcontroller. Spent some time in data analysis and implementations of machine learning tools.

### Bilkent University

*Undergraduate Teaching Assistant*

Feb 2023 – Jun 2023

Ankara, Turkey

- Was a teaching assistant at the course CS125: Introduction to Data Analysis for Social Sciences. The course is taken by the students of the Faculty of Social Sciences.

## **Bilkent University**

Ankara, Turkey

*Undergraduate Teaching Assistant*

Sept 2022 – Jan 2023

- Was a teaching assistant at the course CS115: Introduction to Programming in Python. The course is taken by the students of the Faculty of Engineering and the Faculty of Science.

## **Depixen**

Istanbul, Turkey

*Data Science & Frontend Developer Intern (Voluntary)*

Jun 2022 - Jul 2022

- Done web scraping and data organization for the data team using Python. And worked on some mini React projects with TypeScript.

## **SKILLS**

**Programming Languages:** Python, Embedded C, C#, MATLAB, 8051 Assembly, JavaScript, HTML, CSS

**Technologies:** React.js, Node.js, Unity Engine, VHDL, LTSpice

**Languages:** Turkish (Native), English (Fluent), Spanish (Upper-Intermediate)

**Hobbies:** Football, Basketball, Swimming, Cycling, Reading, Keyboard