

# Baturay Kafkas

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## Education

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### Hacettepe University

Aug 2024 – Present

Bachelor of Science in Electrical and Electronics Engineering, GPA: **3.78/4**

### Private Zafer College

Aug 2020 – Jun 2024

High School of Science, GPA: **98.89/100**.

## Professional Experience

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### Academic Peer

Oct 2025 – Dec 2025

Sustainable Teaching and Learning Center, Hacettepe University

- Taught 7 calculus courses as part of the Academic Peer Support Program with a total attendance of 115.
- Solved math exams held in the past using LaTeX and turned them into a book of 275 pages.

## Projects

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### Research: Effect of Coronavirus Disease on Lung Capacity | *Spirometry*

Oct 2022 – Jan 2023

- Conducted research for the 2204-A High School Students Research Projects Competition held by the Scientific and Technological Research Council of Türkiye (TÜBİTAK), aiming to find the effect of the disease on lung capacity.
- Related the disease and lung capacity using the spirometer device, plotting respiration graphs by examining 29 people.
- Compared Tidal Volume (TV), Inspiratory Reserve Volume (IRV), Expiratory Reserve Volume (ERV), Forced Vital Capacity (FVC), Total Lung Capacity (TLC) values obtained from the examinations.
- Inferred that participants who recovered from the disease took in less air when taking a deep, forced breath, and therefore, only the IRV values confirmed the hypothesis.

### Computer Simulation: Smart Farming System | *Lua, Roblox*

Oct 2022 – Jan 2023

- Designed a system to simulate a greenhouse application for the 2204-A competition.
- Built a client-server architecture to manage user interactions and data flow, demonstrating principles of control systems.
- Utilized the physical constraints provided by the engine to handle the mobile components.

### Developer Tools | *Lua, Roblox*

- Developed a plugin for programmers seeking the data of their code.
- Developed a plugin to adjust the borders of user interface objects for proper scaling.

## Skills

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**Languages:** Turkish (native), English (upper-intermediate), French (pre-intermediate)

**Programming Languages:** Lua, C, Luau

**Markup Languages:** LaTeX, HTML

**Computer Programs:** Xilinx ISE, Dev-C++, LTspice

## Technical Writing

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Learning Lua Programming Language Syntax (*Sep 2023*)

- Published an in-depth article about the Lua syntax in Turkish, reaching 14.0K+ views.

Basic Data Types in Programming and Their Usage Areas (*Dec 2023*)

- Published an article about the Lua data types in Turkish, reaching 2.0K+ views.