

# Baturay Kafkas

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## EDUCATION

### Hacettepe University

*Aug 2024 – Present*

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

- Achieved the highest GPA among the classmates.

### Private Zafer College

*Aug 2020 – Jun 2024*

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

## PROFESSIONAL EXPERIENCE

### Academic Peer

*Oct 2025 – Present*

Hacettepe University

- Taught 60+ engineering students calculus on campus within the syllabus under the Academic Peer Support Programme.
- Solved each question of the math exams held in the past using LaTeX and turned them into a book of 275 pages.

## PROJECTS

### 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

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

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

**Markup Languages:** LaTeX, HTML

## TECHNICAL WRITING

### Learning Lua Programming Language Syntax (*Sep 2023*)

- Published an in-depth article about the Lua syntax in Turkish, reaching 13.9K+ views.

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

- Published an article about the Lua data types in Turkish, reaching 1.9K+ views.