Baturay Kafkas

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EDUCATION

Hacettepe University — Ankara
Bachelor of Science in Electrical and Electronics Engineering — *Aug 2024 – Present*
- Current Cumulative GPA: **3.78/4**.
- Achieved the highest GPA among the classmates.

Private Zafer College — Ankara
High School of Science — *Aug 2020 – Jun 2024*
- Graduation GPA: **98.89/100**.

PROFESSIONAL EXPERIENCE

Academic Peer (Planned) — Ankara
Hacettepe University — *Planned Oct 2025 – Jan 2026*
- Will give engineering students on-campus calculus courses 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 two volumes consisting of around 250 pages.

PROJECTS

Research: Effect of Coronavirus Disease on Lung Capacity | *Spirometry* — *Oct 2022 – Jan 2023*
- Investigated the effect of coronavirus disease for the 2204-A High School Students Research Projects Competition held by the Scientific and Technological Research Council of Türkiye (TÜBİTAK).
- Related the disease and lung capacity using the spirometer device and 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.

Computer Simulation: Smart Farming System | *Lua, Roblox* — *Oct 2022 – Jan 2023*
- Built a system to simulate a greenhouse application for the 2204-A competition.
- Ensured the server/client model to control the user interaction.
- 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 (proficient), C (intermediate), Luau (intermediate), Python (beginner), JavaScript (beginner)
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.