

Computer Engineering
Student



BURAK
YALÇIN



SEE MY WORK

My Philosophy



During my computer engineering education, I strive to work in areas that are in line with my ideals, that will make me happy in my professional life and that will enable me to do my job with love. By applying what I have learned in projects, I aim to increase both my technical competence and my ability to develop creative solutions. As the chairman of the board of directors of the Yazılım, Yapay Zeka ve Yaratıcılık (3Y) Community at our school, I am responsible for implementing large organisations. Believing wholeheartedly in the philosophy of "There is always an environment to rise; if not, it can be created", I focus on creating new opportunities in every challenge I face and focus on continuous development with my team. I am proud to take part in every organisation and project that will benefit our country; I aim to make my knowledge and experience useful in this direction. At the point where technical knowledge and creative thinking come together, I carry out my most productive work. In my free time, I nurture my passion for writing poetry and songs, and I love to express myself with the power of words and melodies. By blending art and engineering, I contribute to both my projects and my personal development.

You can access my poems [here](#) and listen to the song, whose lyrics I wrote and my friend sang, [here](#).

Projects



BİLMÖK 2025/ FEBRUARY 2025

As the Software Artificial Intelligence Creativity Society, of which I am the Chairman of the Board of Directors, we were proud to successfully host BİLMÖK 2025, Turkey's largest student congress.

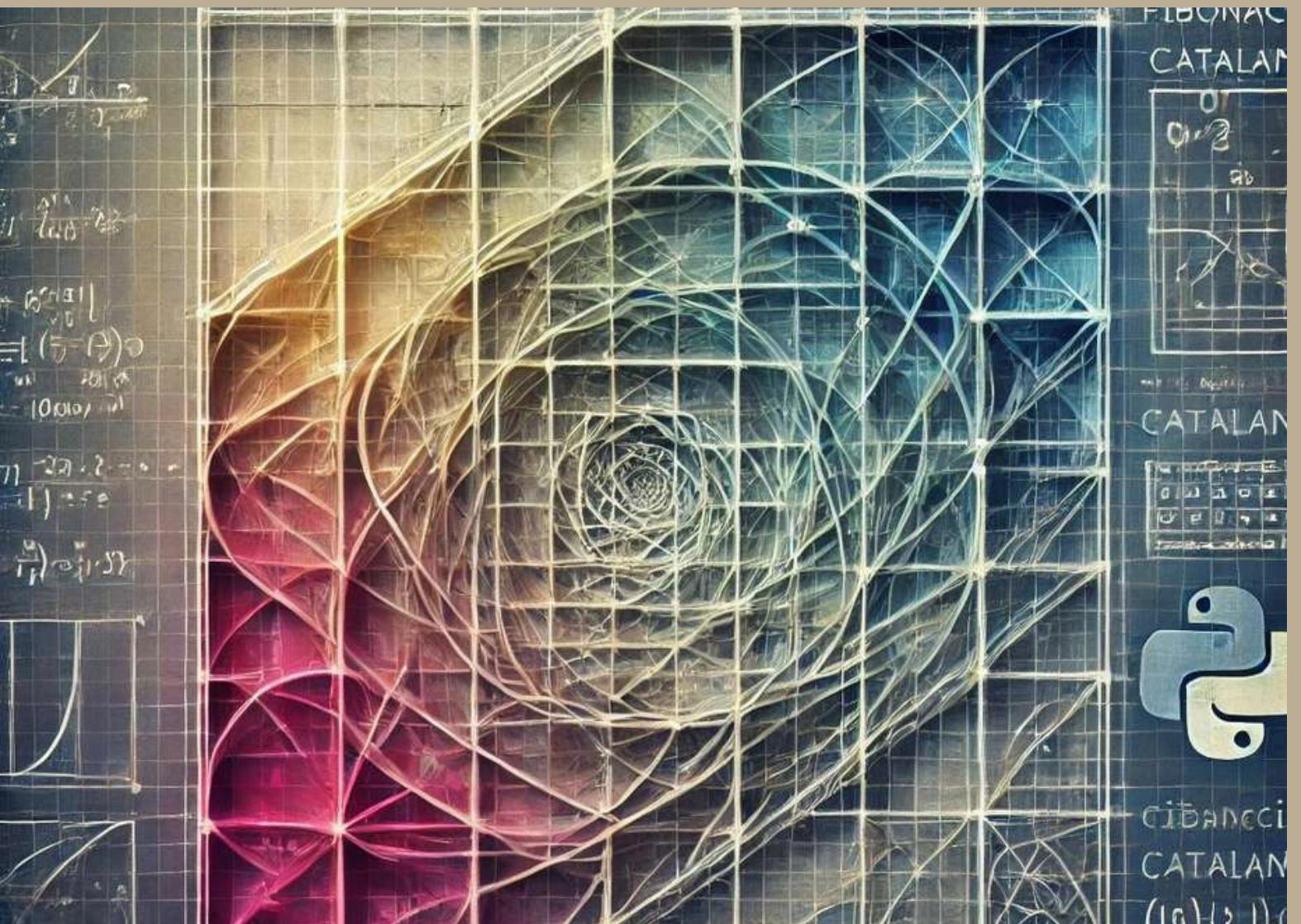
During the two-day event, we organised comprehensive sessions in current and critical areas such as artificial intelligence, cyber security, software development and technology ethics. We hosted important discussions on the future of the IT world by coming together with the leading experts of the sector and brought together more than a thousand IT passionate students from across the country.

Projects

Combinatorial Article on Fibonacci and Catalan Paths / DECEMBER 2025

In the field of computer science and combinatorial mathematics, our academic work "Fibonacci and Catalan Paths: A Combinatorial Study in Lattice Walls" investigates the mathematical properties of lattice paths involving Fibonacci, Catalan and Motzkin numbers.

This paper presents numerical and structural analyses of constrained lattice paths using Python-based algorithms and visualisation techniques. In this paper, the theoretical framework of these paths is elaborated through generating functions, kernel methods and combinatorial transformations. The research provides new perspectives in the fields of discrete mathematics and algorithmic design by revealing the relationship between wall-bounded paths and classical number sequences.  To access the full paper: [GitHub Repo](#) In the process of this work, I had the opportunity to further develop my academic research competence by contributing in the areas of methodology, analysis, programming and visualisation.



Projects



TÜBİTAK 2209-A

Using Soil and Temperature Sensors Determining the Water Requirement of Crops in the Soil with Agrotopia

This project, of which I am the project coordinator, is an artificial intelligence-supported smart irrigation solution developed to increase water efficiency in agriculture and to meet the water needs of plants at an optimum level. Using a Raspberry Pi based system with soil moisture and temperature sensors, a special classification has been created for the plants in the field. Thanks to this classification, the ideal amount of irrigation is determined according to the plant type and water waste is prevented. This project will also ensure sustainability. The artificial intelligence model called Agrotopia analyses the data, predicts the water needs of each plant and instantly transmits it to farmers via the mobile application. This system, which is currently under construction, aims to offer a sustainable future in agricultural production. You can go to the web page of our project [here](#).

Projects

GÜNKAF25/ FEBRUARY 2025

As the Yazılım, Yapay Zeka ve Yaratıcılık Community, of which I am the Chairman of the Board of Directors, we took an active role as a field team at the Southern Career Fair hosted by our university. During the two-day event, we provided close communication with the participants by taking part in the field, contributed to the organisational processes of the fair and effectively promoted our community. Within the scope of the event, we brought together industry professionals and students and mediated to establish strong career-oriented connections. In this process, we had the opportunity to increase the awareness of our community by improving our teamwork, communication and organisation skills.



Projects

UBMK24 / OCTOBER 2024

By taking part in the organisation of the International Conference on Computer Science and Engineering (UBMK24), I contributed to the organisation of this prestigious event that encourages knowledge sharing in the fields of computer engineering, computer science and software engineering. At the conference, which was held at Akdeniz University and focused on the theme of 'Generative Artificial Intelligence', we aimed to bring together the current developments and research outputs of the field with the participants.



Projects



**Gençlerin Gözünden
Kariyer 4.0(Antalya)
/May 2024**

In the Erasmus+ KA154 project, I managed the organisation process of this study focusing on career planning and skills mismatch in Antalya.

Projects

BİLMÖK20 / MARCH 2024

As a community, we represented our university at BİLMÖK20 and took on the task of organising the 21st Computer Engineering Students Congress (BİLMÖK21) by making a presentation. Our community will undertake the organisation of BİLMÖK21, which will take place in Antalya this year.



Projeler



Gençlerin Gözünden Kariyer 4.0(Hatay) /March 2024

I took part in the organisation part of the Erasmus+ KA154 project, focusing on career planning and skills mismatch. The project aims to strengthen the harmony between individuals' professional goals and their existing competencies and to increase awareness in this field.

Projects

GÜNKAF24 /FEBRUARY 2024

We took an active role in the preparation process of the Gunkaf'24 event and opened our stand to introduce our community as the Yazılım, Yapay Zeka ve Yaratıcılık Community.



That's all for now.

The projects and works you have examined so far were a small reflection of my passion for continuous self-improvement. If we have the opportunity to work together, I believe that I will add value by using my energy and creativity. If you want to be a partner in my journey by offering me the opportunity to develop, I would be happy to work with you!

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