

# Blick

february 2024



# ENG



## Our Mission

Welcome to "Blick", a magazine that crosses borders to showcase innovations in robotics workshops worldwide. Blick is a collaboration of #20092, a dynamic German FTC team, and #8058, a passionate Turkish FRC team. This publication serves as a beacon for the global robotics community and to all those who wonder what happens behind the closed doors of our robotics workshops by offering a glimpse into the common mission that unites us all.

Our mission is clear: to provide an insightful platform where robotics enthusiasts, teams and communities from different corners of the world can share their experiences, projects and aspirations. Through this collaborative effort, we aim to foster a sense of unity and cooperation between teams, transcending cultural and geographical boundaries.



FRC Team #8058  
IEL ROBOTICS  
ISTANBUL/TÜRKİYE  
@ielrobotics



FTC Team #20092  
Robotic Tech Frox  
STUTTGART/GERMANY  
@robotictechfrox

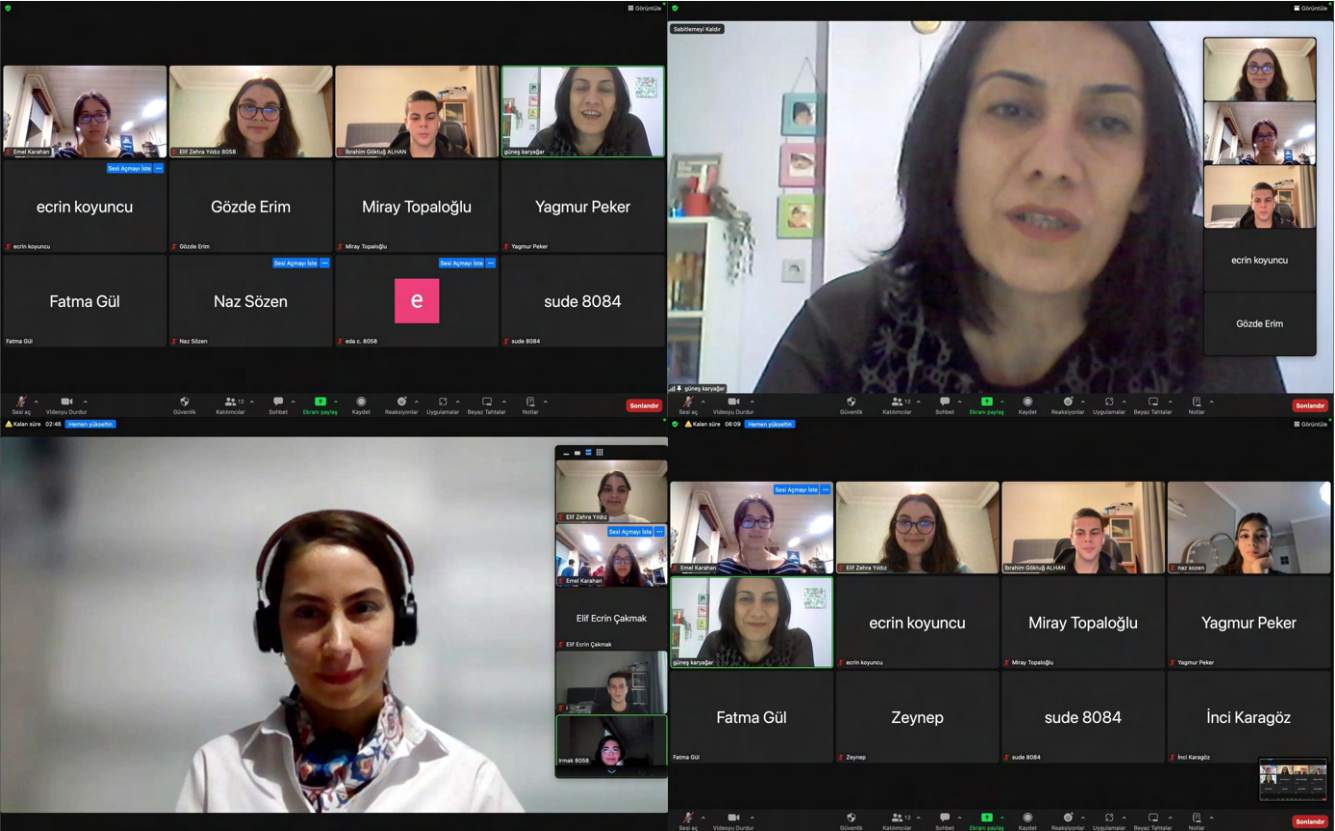
# F E B R U A R Y

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# Ladies FIRST

The STEM (Science, Technology, Engineering, Mathematics) interview with women experts in their fields was a valuable platform where knowledge and experiences came together. In this special event, we listened to the experiences and opinions of women known for their achievements in the STEM field and gained a lot of information that will inspire young girls who will work in the STEM field in the future. During the conversation, we discussed topics such as the challenges faced by women in the STEM field, success stories and career advice. We also discussed what we can do to ensure gender equality in STEM education and the business world. The sharing of experiences by expert speakers in the field deeply affected the participants and increased their motivation. At the end of the conversation, we left determined to provide more support and opportunities for women who want to work in the STEM field. We plan to continue similar events in the hope that such events will contribute to gender equality and diversity in the STEM field.



## Aid project for village schools

We are very happy to send this year's fleece to our dear friends at Kalkanlı Village Secondary School in Hizan, Bitlis! These small gifts we share with you strengthen the bond between us and we hug each other with a warm friendship. Our fleece will keep you warm on cold winter days and remind you that we are always there for you. I hope this small gesture will be a source of motivation for your future successes and carry you even further. We wish that our friendship with you will always continue and we greet you with love!



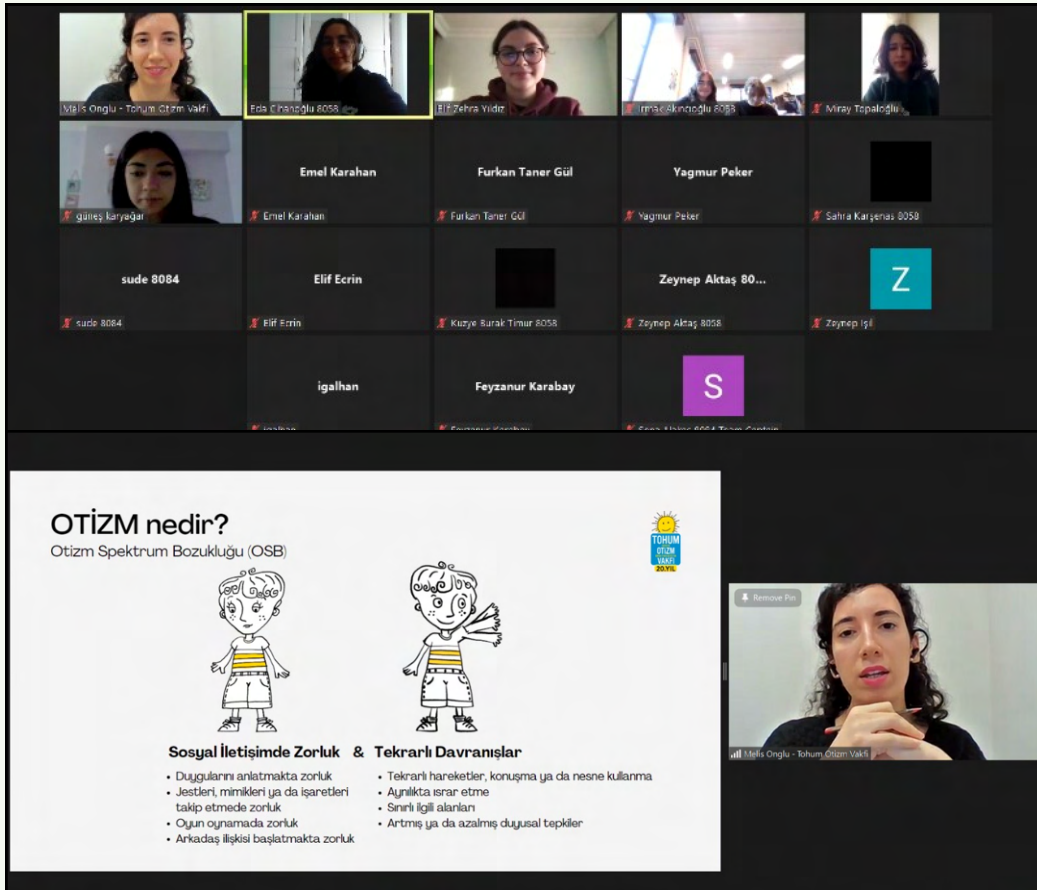
## Autism awareness conference

The conference with Psychologist Melis Onglu was considered as an important opportunity to understand Autism Spectrum Disorder in depth and raise awareness in the society. Thanks to this event, we gained a comprehensive knowledge about the definition, symptoms and characteristics of Autism Spectrum Disorder.

With Melis Onglu's expertise and guidance, we developed a deeper understanding of the early diagnosis of Autism Spectrum Disorder and effective intervention methods. We also had the opportunity to understand the challenges faced by individuals with autism and their families and learn how we can support them.

Throughout the conference, different perspectives and experiences were shared through interactive sessions among the participants. Valuable ideas were exchanged on topics such as how Autism Spectrum Disorder can be better understood in society and what can be done to make the lives of individuals with autism easier.

This important event increased our level of knowledge about Autism Spectrum Disorder and allowed us to raise more awareness in the society. By organizing similar events in the future, we aim to continue to support individuals with autism and their families and raise social awareness.

The image is a screenshot of a Zoom meeting. The top portion shows a grid of video thumbnails for various participants, including Melis Onglu, Eda F. İnançoğlu, Elif Zehra Yıldız, İrmak Cökmezoğlu, Miray Topaloğlu, Emel Karahan, Furkan Taner Gül, Yagmur Peker, gürleş Karayazar, sude 8084, Elif Ecrin, Zeynep Aktaş 80..., ıgalhan, Feyzanur Karabay, and Sahra Karşenas. The bottom portion of the screenshot shows a presentation slide titled 'OTİZM nedir?' (What is Autism?). The slide includes the subtitle 'Otizm Spektrum Bozukluğu (OSB)' and a logo for 'TOHUM OTİZM VAKFI'. It features two cartoon drawings of children and lists symptoms under two categories: 'Sosyal İletişimde Zorluk' (Social Communication Difficulties) and 'Tekrarlı Davranışlar' (Repetitive Behaviors).

**OTİZM nedir?**  
Otizm Spektrum Bozukluğu (OSB)

**Sosyal İletişimde Zorluk**

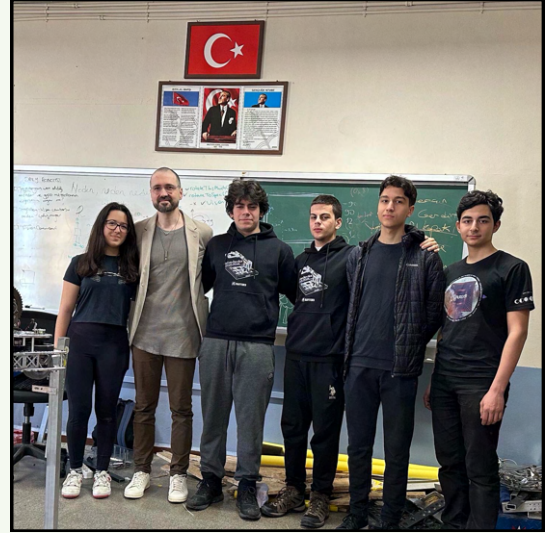
- Duygularını anlatmakta zorluk
- Jestleri, mimikleri ya da işaretleri takip etmede zorluk
- Oyun oynamada zorluk
- Arkadaş ilişkisi başlatmakta zorluk

**Tekrarlı Davranışlar**

- Tekrarlı hareketler, konuşma ya da nesne kullanma
- Aynılıkta ısrar etme
- Sınırlı ilgil alanları
- Artmış ya da azalmış duyuşsal tepkiler

## Alumni Visit

Today, we met with our 04 graduate and mentor Eray Abi, who is also our mentor at Boeing, in our workshop. This valuable meeting gave us the opportunity to reminisce about the past and make plans for the future. We sincerely thank Eray Abi for all the support he provided us.



Eray Abi's guidance and experiences have been a great source of inspiration for us. His valuable advice and experiences have provided us with great support in shaping our careers. The ideas shared and conversations had during this meeting will contribute positively to both our personal development and our professional life.c

We are grateful to Eray Abi and hope that our close relationship with him will continue in the future. We would like to thank him once again and express our appreciation for the precious time we spent together.

## Huawei R&D center visit

On February 16th, we took an informative and educational trip to huawei turkey R&D center to better understand the new generation of technological developments and to learn more about huawei's arrival in turkey. In today's rapidly evolving world of technology, R&D (Research and Development) centers are becoming increasingly important to create innovative solutions and build a better future using advanced technology. In this context, a group of tech-savvy 8058 students visited Huawei's R&D center to explore the opportunities it offers. During the trip, we had the opportunity to meet and chat with the passionate and talented members of the Chinese R&D team. Their dedication to technology and innovative spirit has been a key factor in Huawei becoming a global technology leader. We also had the chance to better understand how successful projects are realized by getting information about the methods applied in R&D processes and the culture of cooperation. In addition to the opportunity to follow the changes and innovations in our country closely, our team members had the opportunity to talk with employees from other economically and technologically strong countries such as China. In addition, we saw how Huawei's global R&D network operates and how it contributes to technological innovations around the world. On this trip, the guides who accompanied us on topics such as artificial intelligence, cloud computing, telecommunications and IoT (Internet of Things), which is one of the company's priority R&D areas, did not forget to inform us about technological developments in the world. We participated in presentations in many different fields, from 5G technology to artificial intelligence, from electric vehicles to image processing technologies.





Huawei R&D Center stands out with its ambitious approach to technology and innovation. Our team members, who encountered the modern and impressive interior design of the center, had the opportunity to closely examine the latest trends and promising projects of the technology world. By being among this privileged group, we had the opportunity to take a closer look at Huawei's approach to technology and how R&D activities are carried out. Of course, we, as IELROBOTICS, did not stand idle and made presentations on many different topics ranging from our school history to the achievements of our club, such as 2023 frc turkey regional first place, aids made through the autism foundation, greening projects in cooperation with ogm in the regions burned by fire in çanakkalede, our joint collaborations with lösev and kaçuv, We delivered STEAM trainings given at IELEV and many other projects that we cannot count to Huawei officials through our presentations. Of course, we did not skip the part of our goal and mission, which is one of our goals this year, to win the bosphours reginol, to try to contribute to the developments in the field of software and technology in our country by instilling frc and steam trainings in young children. Such events, which provide infrastructure for many different companies in our country, such as Huawei, are organized by our team members. On the other hand, Chinese folk food was served to our team members in the R&D center, and our team, who had the opportunity to taste traditional Chinese food, ate all the food with pleasure. We also thank huawei turkey for such a gesture.



## 140th anniversary commemorative forest

On Wednesday, February 28th, we participated in afforestation works in Çanakkale as part of the "Istanbul Erkek Lisesi 140th Anniversary Commemorative Forest" project, which we carried out together with the student union of Istanbul Erkek Lisesi. We initiated this meaningful project on the 140th anniversary of the establishment of our high school in order to combat the destruction caused by forest fires and to show our responsibility to nature.

By witnessing the unique natural beauties of Çanakkale, we realized our goal of leaving a more livable environment for future generations with the afforestation works we carried out in this geography. Within the scope of the project, we planted a total of 8 thousand trees and thus contributed to nature.

During these activities, as students, we once again realized the importance of nature and came together to increase our environmental awareness. We were happy to work together and fulfill our responsibility to nature. We would also like to express that we are determined to organize similar activities in the future to ensure the sustainability of our project.

This meaningful event, which we organized to show our sensitivity to nature and the environment on the 140th anniversary of Istanbul Boys' High School, is one of the most valuable legacies we will leave to future generations. We would like to thank everyone who contributed to this project and we are committed to continuing similar activities to raise environmental awareness.



## Championship report

The championship was the highlight for us this season. We drove there on Friday and got stuck in traffic on a German autobahn, but we enjoyed the moment as we waved to passing cars and watched their reactions. After our bad luck in the traffic and a few hours in the car, we reached our destination in Breda, the Netherlands, where we had dinner and then went to bed to rest for the competition. The next day we set off for the competition at the Avans Hogeschool in Breda. We started to place our robots and prepare for the evaluation and robot inspection, which we went through smoothly. We then did our evaluation, which was great for us. After a good evaluation we were all insanely motivated because everything was working as we had imagined. But it was not the time to relax anymore, because soon the matches started. In the first matches we had big problems, but in the last match everything went well. Because of these problems we still ended up last in the championship standings, but that didn't matter to us, we had only one goal, which was a prize for our evaluation and the rest didn't matter to us, so we just enjoyed our matches and the big side event where FRC Team 4481 and some others presented their robot and the Haas F1 car. After the obligatory macarena dance the qualifying matches and the Award ceremony took place. The qualifiers were really close and exciting. 24145 - ROBO-TECH qualified for the world championship as the Winning Alliance Captain. We were very excited for the award ceremony and we achieved our goal by winning the support award, which includes financial aid given to the team that needs it the most. The second team to qualify for Worlds with the Inspire award was 16409 - Team Orange. The other team from our school, 10183 - F.R.O.G., unfortunately could not participate in the championship, but they competed in the scrimmage organized for the teams that did not qualify. They came third in the scrimmage and won the "true winner of the benelux championship" award from team space for having the highest score in arcade games. All in all, we all had a great day. On Sunday, we visited the Hollandse Duinen national park, Europe's largest sand dunes not close to the sea, and headed home.



On February 3rd we had our FLL regional competition at Festo in Esslingen. Niklas was one of the judges there, so he was quite busy all day. This year we were able to fulfill our goal of giving something back to the FIRST community by lending a helping hand. Other members of our team showed our FTC robots to FLL teams and visitors. Many visitors showed great interest in our robots and there were always children who wanted to drive our robots, sometimes forming queues. As a result, we brought joy to many children and made FTC better known in Germany, which is one of our goals.

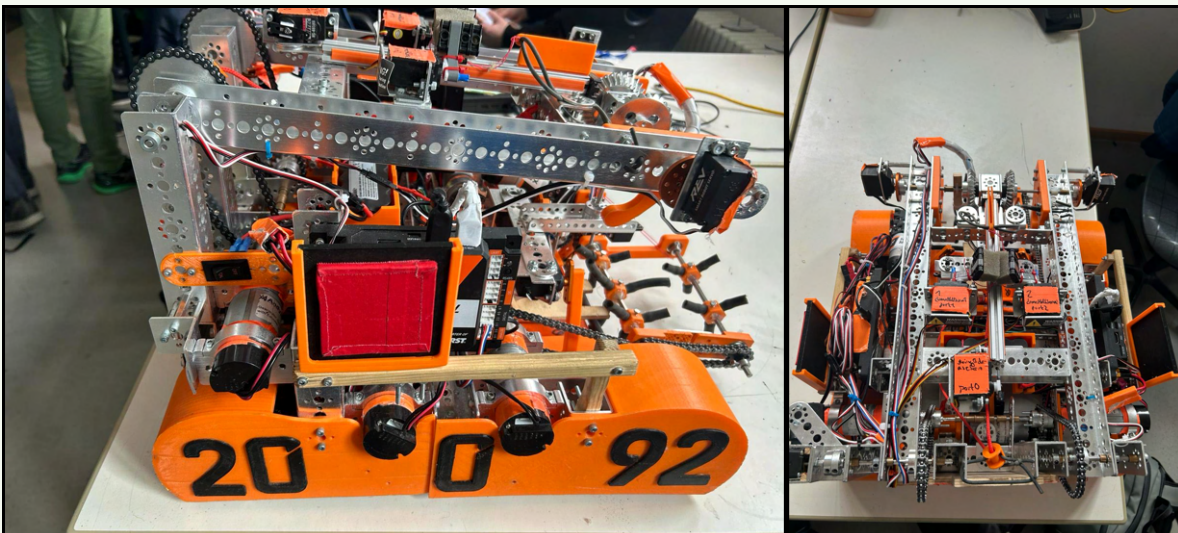
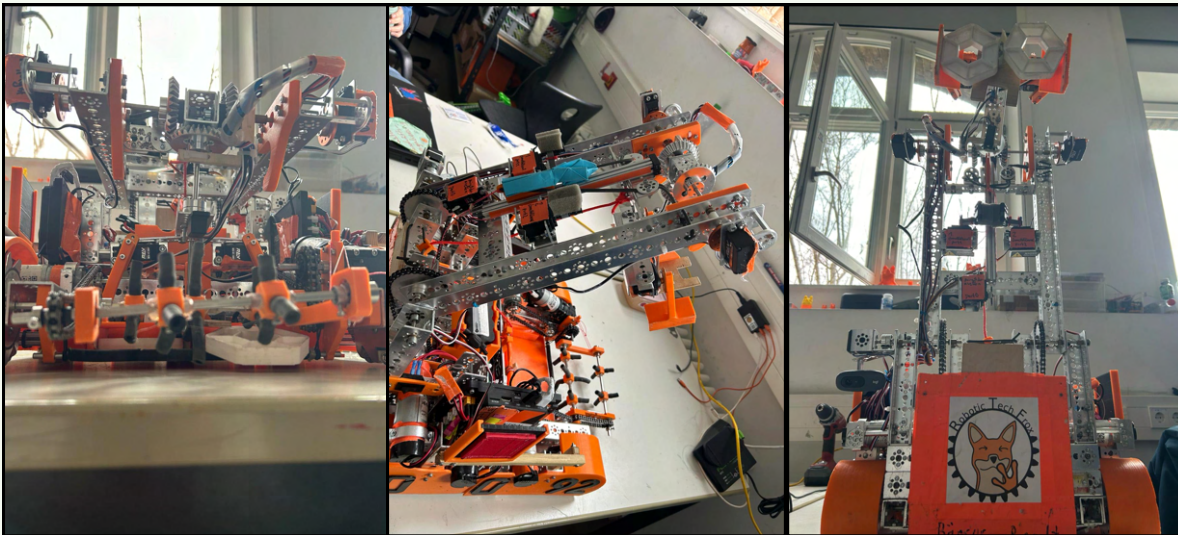


## Introduction day

On February 2nd, an information meeting was held at our school, Königin Katharina Stift. The aim of this event was to inspire the fifth graders who are new to our school. In order to give the children as comprehensive an insight as possible into life at our school, we prepared a rally where all the subjects and clubs were introduced. We also used this opportunity to introduce the FTC. For this we arranged a part of the playground and slowed down our motors so that the children could easily control the robots. We also answered a lot of questions from parents throughout the day. All in all, it was a complete success as our school now has more enrollments than places.

## February Month in Review

In February we mainly prepared for the Championships, and although we didn't finish, we had a lot of fun there. But that was because we had other things to do. At the beginning of February we had an information meeting at our school where we introduced the FTC to the new fifth graders. We also went to an FLL competition to promote FTC in Germany to make it better known there.





Şubat  
Februar  
February

## Introducing ENKA TECH

ENKA TECH Robotic Team was organized as a club at Kocaeli Enka Vocational and Technical Schools in 2016. Since then, our team has been participating in events such as FRC, FLL, VEX Robotics Competition and MEB Robot competitions. There are 30 students and 5 mentors in our team.

Our biggest goal is to cross paths with as many people as possible and inspire them. Since the day we were founded, our goal is to create a lasting impact on people. We aim to bring people of all ages together with technology through our robots, and to help and protect all living things and our world through our projects and sharing. We aim to provide our society with questioning, solution-oriented individuals who can overcome problems. We strive to be an example and inspiration for other young people in our country and around the world.

We are working to be the first team that comes to mind when it comes to STEAM. We are on our way to becoming a team that is proud of its achievements, raises individuals with strong social skills and professional knowledge, and changes the world with creative and innovative solutions.

Our team consists of 3 departments: mechanics, electronics-software and PR. Each department has a functioning that occurs within itself. They also communicate with each other throughout the season.



Our members working in the mechanical department are responsible for the design and manufacturing process of our robot. Our mechanical team is divided into two as design and manufacturing. In the design department, the parts required for the robot are designed on SolidWorks in accordance with their specifications. The fact that our school is equipped because it is a technical school allows us to easily realize the manufacturing and production stages.

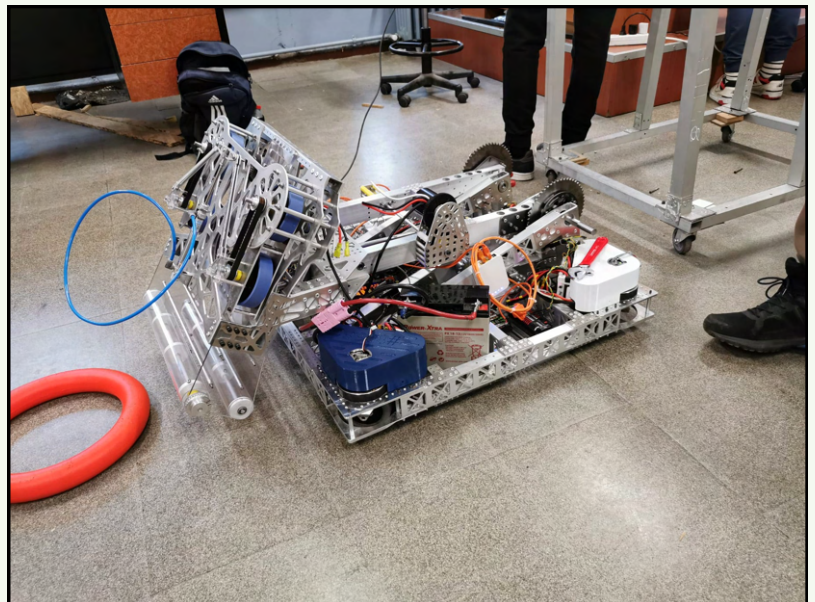
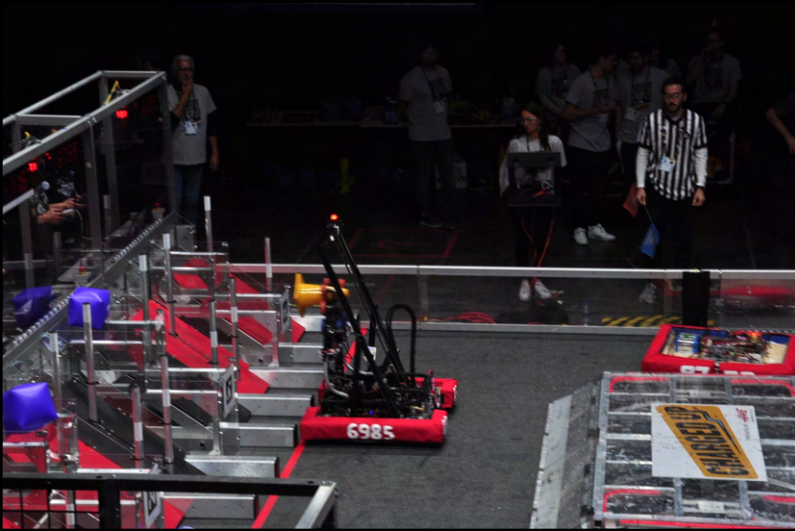
Our electronics and software department carries out an intertwined work in two sub-sections as electronics and software. They do electricity and wiring, as well as dealing with the coding part of our robot. While dealing with the robot during the season, they create a safe and safe electrical layout suitable for passing the checklist. In the programming department, they are responsible for writing the code needed to control the robot and make it work in the autonomous period.

Our PR department is responsible for all sponsorship negotiations, financial plans and reaching large audiences by carrying out social responsibility projects. Our PR department consists of 3 sub-departments: media management, financial management and project management. Our media department takes care of the control of our posts on Enkatech's social media accounts and the promotion of our team. Our finance department takes care of controlling our expenses and revenues during the season, finding new sponsors and keeping in touch with our existing sponsors. Our project department keeps track of the various projects we have started or are working on and develops new project ideas.

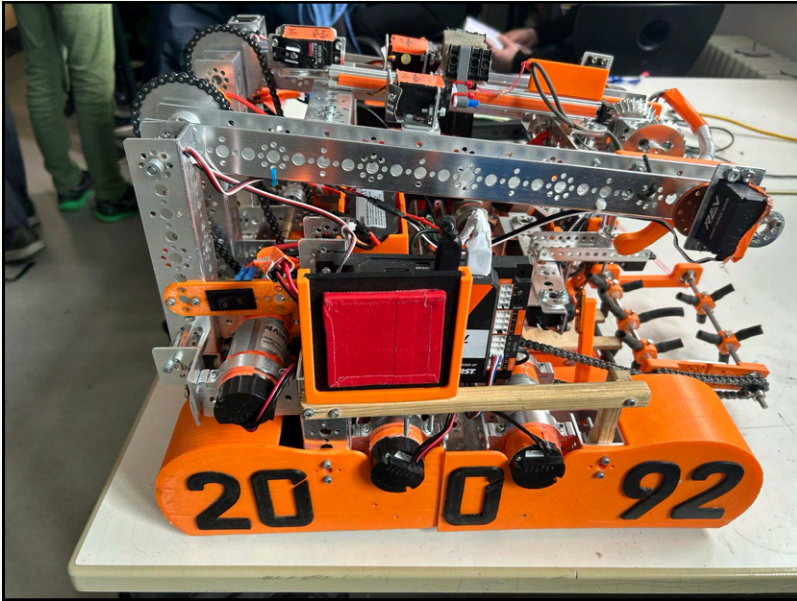
As 6985, we always aim for the best and receive great feedback every season. We are transforming the world while improving ourselves and making priceless memories in the process.



# PHOTO ARCHIVE







## Our Sponsors

We extend our heartfelt gratitude to our 2023-2024 sponsors for their unwavering support, which not only fuels our enthusiasm but also nurtures our interest in STEM, propelling us towards a future filled with innovation and endless possibilities.



ALPHAN ÇULHA



İELEV  
İstanbul Erkek Liseliler  
Eğitim Vakfı



İELDER  
İstanbul Erkek Liseliler Derneği



IEL VEREIN



TÜMPA



YUNER GROUP

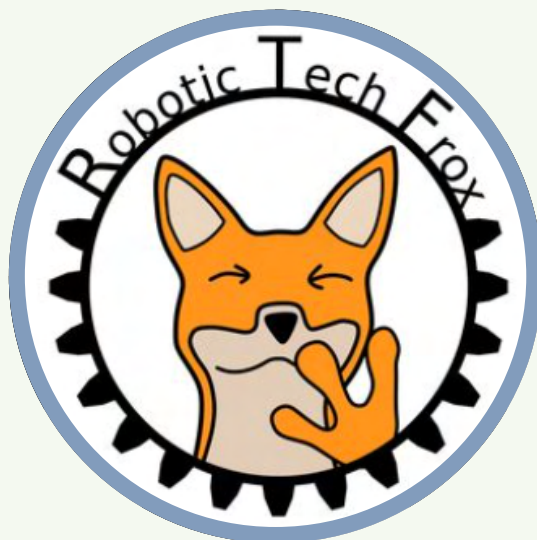


NETAS

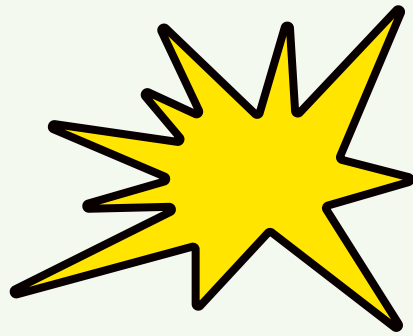


Şubat  
Februar  
February

**presented by**



**#8058 and #20092**



Dünyanın dört bir yanındaki robot odalarına aylık bir bakış  
Ein monatlicher Blick auf Robotikräume rund um die Welt  
A monthly look at robotics labs around the world