#8208

#MoreThanRobots

SYCAMORE

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1.0 Executive Summary

Team Mission

The mission of Team # 8208 is to deliver members to the most accurate information in the most inspiring atmosphere. Mentors, who want them to handle their works with passion, encourage them with their works and projects. In her workshops where unity and solidarity prevail, her skills shed light on their work.

The basis of our mission is to add new ones to our knowledge and knowledge and to bring our team to the best places. Sycamore never expects rewards, creates all the appropriate atmosphere for fair and equal conditions. Mentors and team members are in a unique harmony. Their smiling faces and their interest in what they do energize them.

Team Summary

Established by Özdemir Sabancı Emirgan Anatolian High School students, Sycamore with team number # 8208. We started this path with a team of 20 people. We are a growing team step by step with 14 members, 2 mentors and 4 consultants. As a team, we try to help other teams and individuals around us as much as we can, as people who have adopted solidarity and cooperation. For this, we have organized many social responsibility projects to help FRC teams. One of them, the AlumniTalks event, we have gathered people who has graduated from FRC, their lives have changed and with a certain experience, creating a nice environment with speeches, trainings and fun activities. Then, we allowed our FRC teams to come our workshop, which we established with the support of our sponsors, by opening it under the name of the SycaShop event, and helped them as much as we could. We provided trainings to support other rookie teams to share what we know. Our purpose in the events we organize is not to get a response, but to make friends and to live the spirit of FRC.

Why Business Plan?

The business plan is a guide that guides us in achieving our goals and taking more confident steps. While making this guide, we do it by considering our mission and wishes. It is a guide that will guide us and raise us to success in line with our principles and goals.

Tasks

In the 6-week contest slice, we worked to help our environment as well as making our robot. What we have done during this period of time, when each of our members works beneficially is as follows;

Engineering Tasks

- Creating a certain system and acting in accordance with this system.
- Getting robotic work and job guidance.
-Design and planning of the robot.
-Building the construction and starting the robot.
-Checking of programs and work to avoid interruption of work.
- Creating a trial area where the robot will be driven.

Business Tasks

-Creation and presentation of animations.
-Preparing for presentations and obtaining presentation materials.
-Update our website and produce content.
-Designing our website, uploading photos and videos.

-To make current interactions in social media.
- Supply of the necessary materials and materials.
- Updating the Team Business Plan.

2.0 About Sycamore

2.1 Team Information

Rookie Year	2020
Location	Özdemir Sabancı Emirgan Anatolian High School, İstanbul/Sarıyer
School Membership	Özdemir Sabancı Emirgan Anatolian High School
Team Demographics	14 students (from rookie year 14 students) ● 6 girls and 8 boys
Mentors	2 Mentors (from rookie year 14 students)
Sponsors	Sabancı Vakfı, Ulak, Tasarla Gelsin, Metro Turizm,

Website	frcteam8208.com

2.2 Membership Benefits-Students, Mentors, School and Sponsors

For Students;
- Being part of a team and learning team work.
- To help those around us by reaching out via social media.
- Having a chance to win a scholarship in FRC.
- Working with adult mentors with many experience in business areas such as science, technology and engineering.
- Learning to work in a regular and planned manner with teammates.

For Mentors;
- To be able to act with students.
- Teaching with fun.
- Sharing their experiences on this path with team members.
- To treat team members equally.

For School;
- Supporting students at all times.
- Organizing events to spread Steam and FIRST.
- Attract team members and the community about Steam and business.
- To inform students about getting scholarships from FRC.

For Sponsors;
- It's a good opportunity to highlight their company.
- Attracting attention by the community.
- Advertise on social media and announce their names.

Sycamore's Core Values

The core values that mentors and team members call "chain steps" consist of many rings, such as a chain. It contains the principles it adopts in its rings, and the basic values of its team and country.

(core values tablosu)

Sycamore in Professionalism Ring

Our team, who does not retreat from doing his job with great devotion, shows his difference in every honest and understandable work. It leaves positive impressions in every area. In our useful works, we add a new one to people's satisfaction.

Cooperation, Charity and Communication

Each member of the team feels connected to the team and their communication forces. Team leaders and mentors set an example in every subject and bring their team to the top in a unique harmony.

Kick Off

One of our cooperation and helpfulness attitudes was the support we gave to the # 2905 SOT (Sultans Of Turkey) team, which organized the biggest KickOff Event in Istanbul.

Bahçeşehir University The Raven Drone Team

We set up a workshop where we can develop ourselves in the best way in every field with the support of our sponsors, who have given us great support on this path that we started with the impossibilities. In addition to our SycaShop event, we have

always adopted charity. We shared our workshop with The Raven Drone Team of Bahçeşehir University. We supported them to participate in the competition held at METU on February 25.

Respectful Attitude They Exhibited

Our team has talents that are of great importance in different and distinct topics. Their attitude towards their family, social life and external environment is always in the frame of respect and love.

Social Life and Team Entertainment

A smiling face dominance continues in our workshop. Our mentors instill the importance of gaining experience by having fun with the members of their team. Their aim is to bring fun experiences and practices to the working environment rather than imposing information through memorization.

Fair and Equal Teamwork

Every individual in our team has the right to freedom. Sycamore aims to prevent any obstacles that may prevent team members. Sycamore and his mentors are not

ahead of the team members. Encourages them to work in unity and solidarity on the road to success.

Sycamore in the Window of Innovation and Imagination

There is a clear working principle that everyone can exhibit in their field. Our dream world is wide and we realize that the real limit is that we think that our work may be a stopping point. So our work and our dream world has no end. Our team is open to development in all respects.

3. Organizational Plan

3.1 Team Structure

3.2 Human Resources

Join Our Team

 Sycamore # 8208 announces at the beginning of the year with its promotional programs and posters. With the utmost care and dedication, it targets the enthusiastic team members who really want to walk on this path. In the first meeting, the work of the team, the importance of the work done and the challenging aspects are mentioned. Candidates who attend the meeting then inform whether they want to continue with this team or not.

Trainings

Our experienced mentors and trainers organize regular and scheduled weekly meetings. They organize a training program at the meetings they organize and work in a determined harmony. They tell their students their experienced knowledge with great care and do not hesitate to answer their questions. We have as many steps as possible to make new members feel like they are part of our family and we have climbed the first steps of an equitable-fair system.

Sycamore in Skill and Experience Transfer

Our team, which does not limit itself with being a Rookie, shares all the information that it has learned and experienced with other teams. Our team, which sets an example with its information exchange and sharing approach, shows the motivation given to them by their mentors to other teams and pioneers with their activities and projects. Sycamore progresses by adding success to his experiences and will not regret it for a moment.

Sycamore in Charity

Sycamore # 8208, who knows about the basic principle and main tasks of solidarity, has considered the importance of inter-team solidarity and solidarity in its activities such as "SycaTraining" and "SycaShop". With SycaShop, she did not hesitate to reach more than 2650 people and share all kinds of tools in her workshop. Our team always advocates that there should be equality and a working environment under the same conditions.

Meeting Expectations and Teamwork

Our team and mentors are always punctual. He knows that planned and regular work forms a solid foundation on the road to success, and his respect for and respect for their work always encourages them to be planned. Always encouraging team members, our team offers effort and continuity. Regular team meetings, events we attend and much more are a big symbol of Sycamore and his team's dedication to his business.

Security and Being Safe

Sycamore requires its members to always work in the most reliable and durable environment. Security is everything. The reliability of the environment and the workshop where it works plays a major role in the implementation of projects and fulfilling many more conditions. With the Safety Award we received in the Ankara Off Season, our team revealed its difference in the work it did.

Instructional Management

The work of our mentors with the team is in harmony and always in the plans. In addition, our team has succeeded in transferring talents and dexterity to other teams, as well as the information it adds and acquires to it.

4. Social Assistance and Mentoring Plan

4.1 Community Access

As Sycamore team, we give priority to our activities or social assistance projects that we have done and will do. In our next activity, we aim to reach more people. At the same time, we try to emphasize the importance of the activities we have done to our members. In this process, we try to benefit the society in every field.

12. Philanthropy Seminar

We've attended to one of the biggest philanthropic events ever of Turkey which was organized under the slogan of "Life without Barriers" by our main sponsor, Sabanci Foundation. Here, we contacted the disabled individuals who came to our stand and explained both our projects and talked about our team. In addition, we inspired the audience we have reached through many news channels such as CNN and HaberTürk. There were 2 projects we developed for this purpose; SensePro and IPStick;

SensePro

   For individuals who have lost any limb or tactile sensation of the body, they can imitate nerves and neurons by imitating the tactile sensation by giving electric currents with little force to the body.

IPStick

   Thanks to its sensors and cameras, it can follow the yellow lines on the sidewalks for individuals who have lost their eyesight. Also, after determining where you want to go on the map through the mobile application we developed for IPStick, this smart cane guides you to that location.

   In addition, interviews with our team were broadcast on TV channels such as CNN, Haber Türk, Fox and Show.

SycaVision

   We developed a library called 'Sycavision' so that all teams can process images. This library we developed can work on boards such as Rasberry Pi, Jetson as Linux, Windows and Coprocessor. Our library takes only 30 seconds to provide 90 FPS images and set up the other image processing infrastructure. This program we have published has been downloaded more than 550 in 3 days and it has been installed on 200 different robots. Moreover, this data is not only included in the data we obtain over PyPi, GitHub downloads and external downloads.
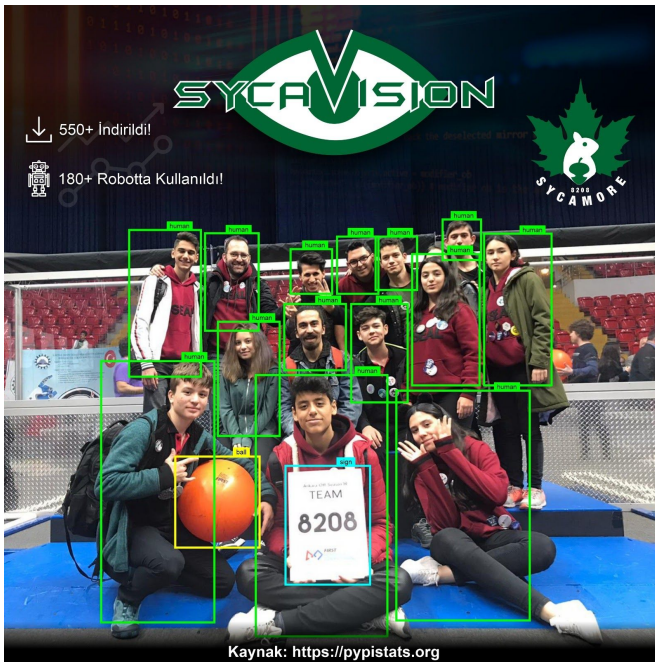
Working at Emirgan

In Emirgan, the district where our school is located, we washed the street residents' car and took a dog. In this way, we both had the opportunity to raise money for the budget of our team and spread the FRC by explaining our project to the people around us.

Working at Meri Bakery

As the Sycamore team, we worked as a waiter, cook, baristo and design assistant in a cafe named Meri Bakery. We both introduced FRC to our incoming customers and gave information about our team, and thus spread the FIRST spirit to the community.

Cleaning in Emirgan Grove

We inspired both the environment and the individuals who saw us in the environment by collecting rubbish in the Emirgan Grove, one of the most popular places in Emirgan, the district where our school is located.

AlumniTalks Event

On January 31, 2020, we organized the Turkey's most prestigious team event in conjunction with the 7748 Techtoli. In this seminar, we have organized an event by gathering people and groups to a certain degree, who their lifes have changed, have gained experiences and they have graduated from FRC before. The biggest aim here is to have fun, to create a nice environment for teams to come together and relax a little bit. Taking lessons from the success and failure stories told by graduates and taking examples. It was a very good activity full of fun and information where they explained their faults and faults, what they did in difficult times, and then they told each other about their belief and team spirit. After the event, graduates gave workshops on software, electronics, mechanics and PR with the knowledge they gained from their experience. In this way, we have reached a lot of teams and helped them in what they are missing and presented our best in the best way.

SycaTraining

As a team, we provide workshops and trainings to other rookie teams as much as we can in the fields of mechanics, electronics, software and PR in the event we organize and continue in order to help the rookie teams to keep the FRC spirit alive. For this purpose, we made announcements in our social media accounts, we hosted the teams who wanted to come, and we organized workshops on the same basis with the same information as other rookie teams, giving presentations and educational and instructive workshops.

SycaShop

As Team 8208, we have always been unwilling to offer the possibilities we have to other teams. In our SycaShop event, we have made our workshop available to all other FRC teams. Our workshop, which we have established with the support of our sponsors, is well equipped and useful. We have organized this event so that they can use these opportunities in their other teams, and we have opened our workshop to other FRC teams in line with their needs without waiting for a response.

Spreading FIRST and FRC to Engineers and Entrepreneurs

Our team, which continues its efforts to spread FIRST and FRC without slowing down, has explained this way, the work we have done and our team in full detail, under the leadership of our mentor Enis GETMEZ, to the map engineers and

entrepreneurs of the Istanbul Metropolitan Municipality. Our team has gained great praise and appreciation for its success and perseverance.

OUR FLL TRAININGS

Thanks to our experienced mentors and trainers, we convey what we know to third parties with great devotion. We hold meetings accordingly and issue a training program. We describe our experience and knowledge with great care and do not hesitate to answer questions. We provided free FLL trainings on our website, and we reached 13,000 people.
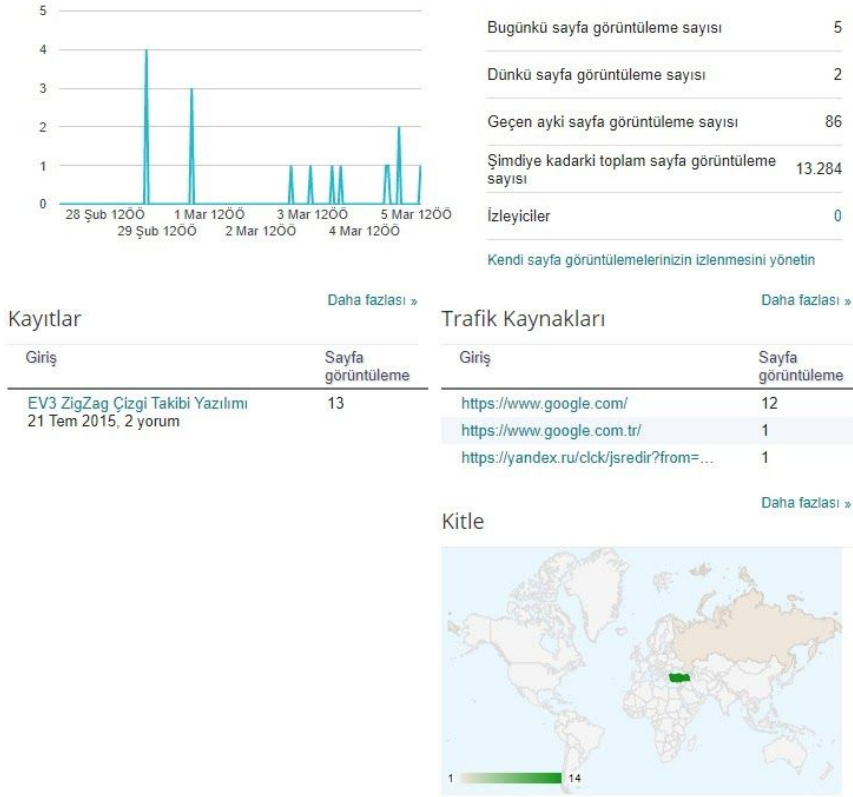
STEM Dissemination Works

We helped establish a robotic workshop in a village school in Mardin by donating 2 EV3 kits within the scope of "STEM Spreading Studies" of the All Children Are Our Association. We also donated an EV3 set to Kemerburgaz Turgut Özal Secondary School.

Ulak

As a result of the UlakApp agreement with our team 8208 Sycamore, UlakApp supported the courier of all teams in Istanbul for free during the FRC season. UlakApp is a courier application that provides fast delivery during the day. They can use it for exchanging materials or exchanges between teams. When downloading the UlakApp application and calling a courier for them to use, it was enough to write 'Sycamore8208 free carry' in the notes section.

Delivering FIRST and FRC to Large Audiences

Our team has reached many people with our activities and played a role in knowing FIRST and FRC by third parties. We aimed to raise awareness through social media, which plays an active role today. We organized interviews with Youtube channels that appeal to large audiences and we explained this way we walked in this path with full details.

4.2 Mentoring and Assistance to Other Teams

Enis GETMEZ and Sabri Sami TOKER were pioneers in their team's knowledge and experience in both engineering and business. In addition to doing mentoring, they supported their students in every subject and managed to become more than a mentor. Our mentors who show direction like a compass are behind every success we run with our team.

In addition to their help to our team, they did not hesitate to show the same dedication to other teams. The relevant attitudes and projects they showed enabled other students to add one more to their experiences.

6. Marketing Plan

6.1 Target group

-Özdemir Sabancı Emirgan Anatolian High School Students

We market ourselves with our school management and students with formal meetings, strong, continuous, daily chats, and presentations and demonstrations in the direction of FRC and STEAM that we exhibit in a team.

-**Sponsors**

Sponsors provide the greatest financial support for us and additionally have various donations. We provide potential sponsors through marketing and direct communication to provide continuous support to our team and to win new partners. Our team is responsible for appreciating sponsors and thanking them.

-**Potential Team Members**

We work to get students as members by marketing our team appropriately because team members are the most important component of our team. We are also expanding the audience we reach by encouraging teachers and parents to guide the

team. The best way to reach potential students is through our various social assistance and mentoring programs organized by our members. We encourage people to join STEM, FIRST and Sycamore in these programs.

6.1 Marketing Environments

-Images: Posters, Robot Graphics, T-Shirts, Flyers etc.

Team images are an integral part of our marketing and
It is an important requirement to become more recognizable and memorable within FIRST. We make our marketing by making our shares the most interesting from all kinds of platforms, from team t-shirts, documentation and presentation materials, to the website and social media channels.

- FIRST Support

As long as we have a team, our name will stand out in the global FIRST community. This includes strengthening our relationship through mentoring and collaboration through live training talks with other teams, both in our video and workshop.

7. Financial Plan

The financial plan, which is one of the basic steps of our success and being on this path, forms a whole with our supports. The interest and belief of our sponsors, who we call our supporters in this way, has brought us success. We created our financial plan with our fundraising and fund-style initiatives.

Sponsors

Sycamore regularly contacts and sponsors with its sponsors. It informs its sponsors about their work and impressions. Our team believing that face-to-face communication is strong and created many sponsorship meetings and continued their discussions on this subject.

The Sabancı Foundation, which has been with us since the time our team was founded, has also been a pioneer in the establishment of our workshop. Providing us all kinds of opportunities has increased our success in our projects.

Our team does not hesitate to find ideas that will appeal to our sponsors and has created their work in this regard. It speaks to its sponsors about their progress and development in order to avoid communication gaps and keeps them informed.

Member Contributions

Our students and mentors have made many material and spiritual contributions to our team. Many of our members have volunteered for the collection of products to be used for the event. In addition, ULAK Company Sponsorship, made to other FRC teams from our mentors, is one of these supports. In addition to financial support, spirituality, which is one of our missions, is reflected on our team in unity by our members. The family atmosphere in our workshop continues to motivate us in our work.

Financial Chart

Finansal Grafik

Etkinlikler 1,3%
Mekanik Malzeme 15,0%
Diğer 3,7%
Atölye 80,0%
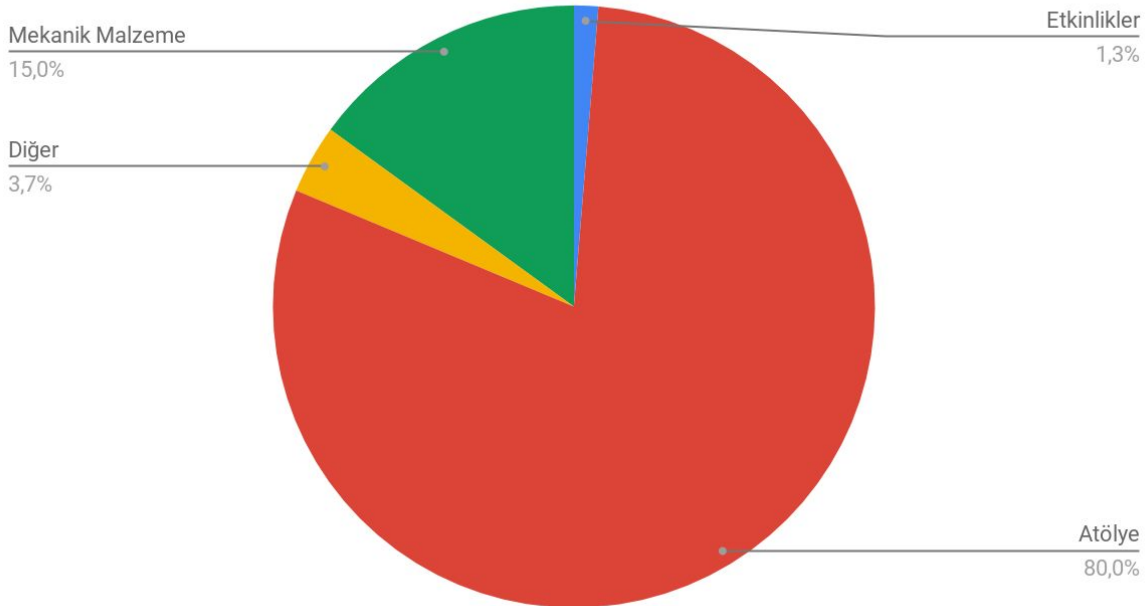
8. Strategic Plan

Students and mentors have always followed a strategic plan from the time the team was established until today. The most important of these is to act within the plan and program. Our team, which attaches importance to the business and career planning of its students and mentors, has developed various strategies. Sycamore is always in a position to analyze his team and he has the task of following the shortcomings. The team reviews the list in the context of order to carry out the conversations and strategies in the plans.

Example Team SYCAMORE

Developing ourselves and being open to innovations are among the principles of our team members. Sycamore # 8208 believes that their success will have no end and always strives for the better. It works with all its strength to maintain the mission of FIRST, to solve the problems of society and to make the learning strongest. Its members always include exemplary students and our team infuses unity and solidarity with other FRC teams. SYCAMORE is a huge plane tree that takes the shadow of science and people with all its seeds.

SWOT

Strengths

1. Skilled, highly experienced and accessible mentors in every subject.
2. Strong, tidy team members.
3. Team members who have done degrees in mechanics and software.
4. Strong team relationship
5. Team members dominating STEAM

Weaknesses

1. Small workspace
2. Not much sponsorship
3. Low school support

Opportunities

1. Equality of numbers of men and women
2. Experience and knowledge transfer from AlumiTalks and FRC graduates
3. Talents developed by team members.
4. The mass we have reached through the software courses we give at our school.

Threats
1. Loss of financial support.
2. Loss of space for the robot
3. Loss of school support.

Measuring Success

0.1 Key Performance Indicators
As Sycamore, we conduct weekly meetings to evaluate the key performance indicators and course of our altitude. As a result, we organize the data together with the opinions of the mentors and measure the performance of the team.

0.2 Indicator

-Team members' interest in STEAM

-Duties and skills of team members

-Relationships and working environment among team members

-Our team core values

0.3 Measuring Method

-Team evaluation with STEM values

0.4 Application

Sycamore meets twice a month with mentors and consultants. In this meeting, the currentness of the Business Plan, possible changes in the strategic plan, sponsor and financial investment are discussed. The administrative division of the team analyzes the collected data and applies the changes.

Future Plan
As a team, we have adopted the principle of increasing business, career and life success, getting future information, methods and practical tips and understanding new concepts for a better future. We believe that the way to feel good and more experienced materially and

spiritually is through the right choices. Proper planning prepares the team and real teamwork for a better future.

Our Short Term Plans

Our plan for the upcoming month is to visit village schools and provide training to students all around Turkey. The scope of this training consists of, but not limited to:
Creating a sub-base in children by talking about the definition and contents of FIRST and FRC.
Instilling the importance of STEAM and its place in future planning for children.
Talking about the interesting mechanisms of the robot and the robot.

Our Medium Term Plans

We have provided many trainings and support to other teams within the scope of SycaTraining. We aim to expand the scope of our trainings. For the FRC teams, we will provide many free tutorials in areas such as image processing which costs a lot for a team with the current equipment provided. We aim to increase our trainings on this subject and eliminate any obstacles that may prevent FRC teams.
We will organize works to provide better living conditions for our stray animal friends. In this context, we will make huts from renewable sources and cover the cost of their food needs with the budget we obtained as a result of fundraising campaigns.

Our Long Term Plans

We will establish FLL teams with the intentions of raising awareness of STEAM (Science, Technology, Engineering and Mathematics), the area where primary and secondary school age groups can demonstrate their skills and capabilities.
Our team members, who will graduate in 2022, will advance to mentoring in order to keep in touch with the team and FRC, and will help and inspire other teams by sharing their experiences with other teams that aim to progress on the same path.