

MEMORIES ALBUM 2024



SUMMARY

Recording the last 3 years of 1156

OUR TEAM

ABOUT 1156
2024 ROBOT
ALUMNI MEMBERS
BOOSTER CLUB
AWARDS
OUR ROBOTS

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OUTREACH HISTORY
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ASSISTED
RAN, HOSTED & SUPPORTED
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OFF SEASON 2022
OFF SEASON SESI 2023
BRAZIL REGIONAL 2023
SINOS VALLEY CHALLENGE

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FUTURE PROJECTS

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SINCE 2002

TEAM UNDER CONTROL #1156

INSPIRES PEOPLE THROUGH SCIENCE AND TECHNOLOGY



HOW EVERYTHING STARTED

Under Control #1156 was founded in 2002, with the objective of introducing *FIRST*® and its principles to our school. After participating in our first competition in 2003, we became the 1st Brazilian team to win the Rookie All-Star Award.

Since then, 1156 has been introducing and promoting STEAM in our community, changing the way people see robotics, and impacting the lives of thousands of people for over 20 years.



MEMBERS

40% female

60% male

MENTORS

10 *FIRST* ALUMNI
mentors

25 active students

Humanity

Professionalism

Excellence



Under Control's mission is to inspire generations through STEAM, building leaders for the future, promoting values of professionalism, humanity and excellence.

VIPER THE ROBOT



CRESCENDOSM

PRESENTED BY 
Gene Haas Foundation

Under Control's 2024 robot is called **Viper**, with its name being taken from an unit in the videogame **StarCraft**, as is the case with all of our other robots.

It is 27,5in tall, 23,5in wide, and 23,5in long. It weighs 99lbs featuring: one intake, one shooter and one climber.

The robot was completely designed through CAD, went through rigorous mechanism prototyping, and went through a few physical changes.

ALUMNI

HENRIQUE SCHMITZ

Henrique works as a backend developer at SAP Latin America, the world leader in CRM & ERP softwares, creating bonds between the company & Under Control, and also being one of our active mentors.



DANIEL HANAUER & FILIPE GHESLA

Filipe and Daniel founded stemOS, a STEAM solutions company that distributes FIRST® materials and is responsible for the training and coaching of several FIRST® teams across the country.

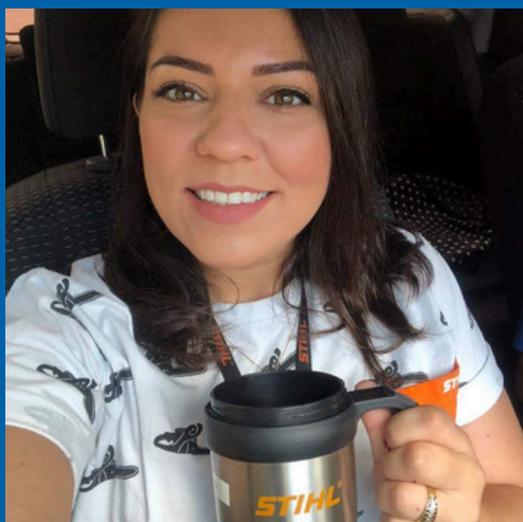
GIANFRANCESCO VENTURIN

Gianfrancesco Venturin works in the biggest bank of Latin America as the director of it's digital area. Nowadays, he is a judge at FIRST® events all over our country and abroad.



FERNANDA ROBINSON

Fernanda Robinson currently works at Stihl, one of the biggest motorized tools companies in the world. She is graduated in mechanical engineering.



MEMBERS

BOOSTER CLUB

PARENTS

One of our main sources of assistance are our members' parents and family members.

They are an essential part of our team, and we would not be able to grow the same way without their support.

EVENTS

The parents' participation on our fundraising events is extremely important. There are roles students sometimes can't assume because of other responsibilities.

Their knowledge is fundamental in turning the team's fundraising ideas into reality, allowing us to keep the team functioning.

SUPPORT

We all know that sometimes being in a robotics team can be difficult, so the support from parents is essential to keep students focused and inspired at all times.

Our team is really grateful for them!





AWARDS

2003 J&J MID ATLANTIC REGIONAL
ROOKIE ALL STAR AWARD FRIDAY

2004 NEW JERSEY REGIONAL
JUDGES AWARD FRIDAY

2005 NEW JERSEY REGIONAL
ENGINEERING INSPIRATION AWARD

2007 BRAZIL PILOT
JOHNSON & JOHNSON
SPORTSMANSHIP AWARD

2008 BRAZIL REGIONAL
REGIONAL WINNER
REGIONAL ENGINEERING
INSPIRATION AWARD

2009 NEW YORK CITY REGIONAL
JUDGES AWARD

2014 SBPLI LONG ISLAND REGIONAL
REGIONAL WINNER
ENTREPRENEURSHIP AWARD

NEW YORK CITY REGIONAL
REGIONAL FINALIST
INNOVATION IN CONTROL

2015 VIRGINIA REGIONAL
TEAM SPIRIT AWARD

SBPLI LONG ISLAND REGIONAL
REGIONAL CHAIRMAN'S AWARD

2016 SBPLI LONG ISLAND REGIONAL
REGIONAL WINNERS
QUALITY AWARD

2017

SBPLI LONG ISLAND REGIONAL
REGIONAL WINNERS
ENTREPRENEURSHIP AWARD

HUDSON VALLEY REGIONAL
QUALITY AWARD

2018

NEW YORK TECH VALLEY REGIONAL
REGIONAL CHAIRMAN'S AWARD
REGIONAL WINNERS

IOWA REGIONAL
REGIONAL WINNERS
GRACIOUS PROFESSIONALISM AWARD

2019

HUDSON VALLEY REGIONAL
REGIONAL CHAIRMAN'S AWARD

2020

2020 FINGER LAKES REGIONAL
REGIONAL CHAIRMAN'S AWARD
DEAN'S LIST AWARD FINALIST

2021

SOUTH AMERICAN + CARIBBEAN
REGIONAL
REGIONAL CHAIRMAN'S AWARD
WOODIE FLOWERS AWARD FINALIST

CHAMPIONSHIP
CHAIRMAN'S AWARD FINALIST

2022

ORLANDO REGIONAL
REGIONAL CHAIRMAN'S AWARD
DEAN'S LIST AWARD FINALIST

2023

BRAZIL REGIONAL
REGIONAL WINNER
INDUSTRIAL DESIGN

CHAMPIONSHIP
ALLIANCE 6 CAPTAIN
ENGINEERING INSPIRATION AWARD

2024

BRAZIL REGIONAL
REGIONAL WINNER
AUTONOMOUS AWARD

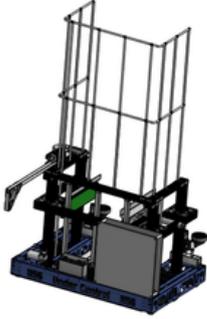


OUR ROBOTS



2015

2016



2017

2018



2019

2020



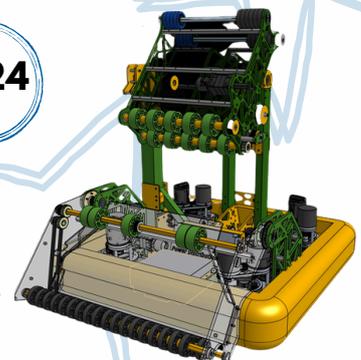
2021

2022



2023

2024





OUTREACH

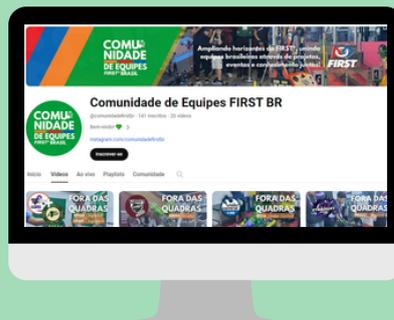
Outreach actions mean a lot to 1156.

This is how we spread experience, knowledge and the FIRST® message to our community and beyond. We strive to impact as many lives as possible, be it through small local actions, or through massive worldwide events, all while connecting people with FIRST® and STEAM.

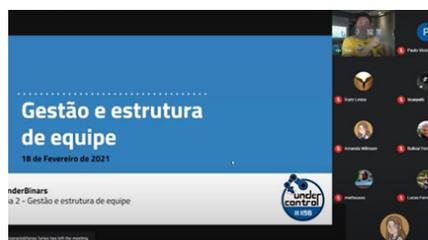


OUR PROJECTS

**ROBÓTICA
PARA TODOS**



3ª EDIÇÃO
SINOS VALLEY
CHALLENGE



1156 & SESI

SESI is a government organization that uses industry resources to promote social causes. They have over 450 schools all over the country.

Assists, mentors,
and starts FIRST
teams

Establishes
FIRST® in
Brazil.

Official FIRST® Operator;
Funds STEAM
development through
education, pays
registration fees, funds
kits and materials,
Mentors & structure.

TEAM 1156

SESI

1156 HAS BEEN INVOLVED IN THE ESTABLISHMENT
OF FTC & FRC IN BRAZIL SINCE 2018.

FTC EVENTS:

- 1st FTC National - 2019
- 2nd FTC National - 2020
- 3rd FTC National (Online) - 2021
- 4th FTC National - 2022
- 5th FTC National - 2023

Our team:

- Trained judges & volunteers
- Created documentation for FTC & FRC

FRC EVENTS:

- Off Season - 2019
- Off Season - 2021
- Off Season - 2022
- Off Season - 2023
- Regional - 2023
- Regional - 2024



TIMELINE

Under Control & SESI

Work done to bring FRC back to Brazil

2018

CHAMPIONSHIP TOUR

Our members provided a guided tour to SESI representatives at the 2018 World Championship in Houston to introduce them to FTC & FRC. As a result, they gave the team the mission to start 16 FTC & 4 FRC teams until 2019, accomplished by training their members.

2019

OFF-SEASON BRAZIL

In 2019 we faced the goal & started more 19 FTC teams, training all of their coaches, totalling 39 teams started. We also ran & hosted the first South American FRC event in 10 years, Off Season Brazil. This showed to SESI the possibility to bring FRC competitions to Brazil.

2020

MENTORING NEW FRC TEAMS

We developed the UnderBinars project, which consists of weekly Q&A seminars regarding FRC. It was first applied to 4 FRC teams we started & mentored during their rookie season. In 2020, we repeated this mentoring process with 15 new pre-rookie teams, preparing all of these new teams for the competitions.

2023

BRAZIL REGIONAL

Marking its 20th anniversary, 1156 has achieved its greatest goal: the 1st FRC Regional event in Brazil since 2008. 1156 supported the event by providing 18 volunteers & having members working actively in the FRC & FTC organizational committee.

2022

FRC OFF-SEASON

We supported the 2022 Off Season event, the 1st with an official game field in 14 years. Having 28 Brazilian teams, it was crucial to the growth of FRC in Brazil. 50% of the FRC teams were mentored by 1156 & 12 volunteers were our alumni, who trained other volunteers with our assistance.

2021

ONLINE FRC OFF-SEASON

Alongside StemOS, we ran the international stemOS FTC Off-Season event, spanning over 15 hours of live streaming, & counting with the participation of 20 teams from 3 countries, as well as 12 team volunteers. This made Brazil recognized by other countries, who now see it as an option for competition.

ESTABLISHING FRC IN BRAZIL

STARTED & MENTORED

FIRST® TECH CHALLENGE

STARTED: Cavalo Vendado 16786.

MENTORED: Under Ctrl 14391, FGC IKom 21131, FSTC Usi-ekii, FGGC Akure 21130, FGC Robuchi, FGC Kano, FSTC Awka, FGGC 101, FSTC Orozo, FSTC Michika, FGBC Apo, Queens College, FGC Vandikya, FGGC Oyo, Cavalo Vendado 16786, 15 Equipes da Nigéria (Coderina Tech).

FIRST® ROBOTICS COMPETITION

STARTED: Cavalo Vendado 9066

MENTORED: Infinity BR 8882, Steampunk Monkeys 9049, Tech Vikings 9164, Tucanus 9050, Squad Of Robots 9110, Potibot 9048, Cyber Phoenix 9178, Cavalo Vendado 9066, Courtesy Team, BBtech 9046, Tecrobot 9166, All Might 9162, BrainMachine 9175, TechMaker 9047, Mont 9305, Cavalo Vendado 9066, Krypton 9487, Robots District 9484, Metal Knight 9617.

THE LAST 3 YEARS IN SUMMARY

2
TEAMS
STARTED

33
TEAMS
MENTORED





1156 HAS
ASSISTED
504

TEAMS IN THE LAST
3 YEARS

VIDEO CALLS

TEXT CHATS



Regarding technical and non-technical matters



For simple, quick questions through social media

ONLINE CONTENT

PROJECT SHARING



Showcasing our work and inspiring other teams



Increasing the reach of other team's projects

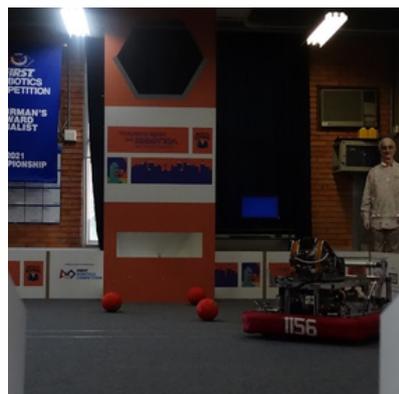
RAN, HOSTED & SUPPORTED

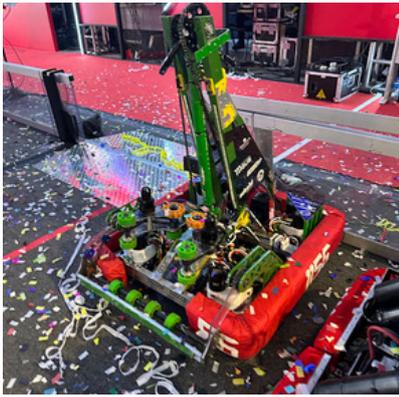
2021

- stemOS FTC International Offseason event
- SESI FRC Offseason event
- Prototyping and ideation workshop at Festival Marista de Robótica
- Programming workshop at Festival Marista de Robótica

2022

- FLL Scrimmage event
- Underbinars Q&As
- Robots for All (10 visits)
- Pocket SESI (2 editions)
- Festival SESI de Robótica
- Festival Internacional SESI de Robótica





2023

- Sinos Valley Challenge
- Cadathon
- Festival Marista de Robótica
- FLL regional
- stemOS Scrimmage
- Brasília regional
- Festival SESI de Robótica Off Season RJ
- Workshop FLL Uruguai

2024 (Ongoing)

- FRC Warm Up (pre-season, w/ team 4400)
- Sinos Valley Challenge

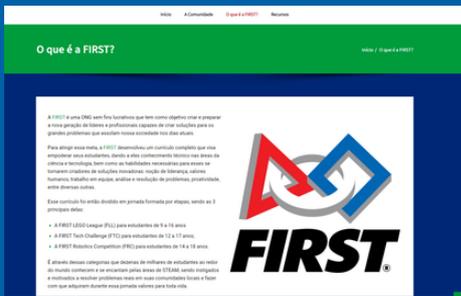


FIRST® TEAMS

Created as a bridge between Brazilian teams, FIRST® Teams Community Brazil is a movement that encourages the creation of strong bonds and friendships between different teams from different FIRST® categories.

400 FIRST TEAMS

Impacted through projects, collaborations and publications on the movement's website and social media.



CADATHON

The CADathon was a CAD-focused event, bringing together participants from FTC and FRC for a design and engineering immersion over two days of intense creativity and innovation.

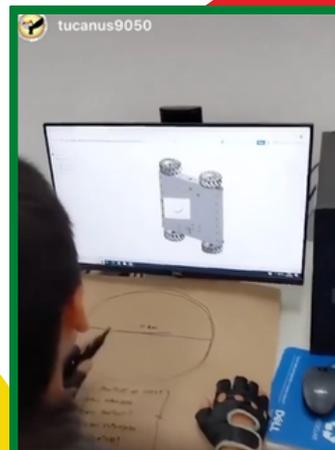
98 PARTICIPANTS

 excited to show off their skills

33 TEAMS

 determined to create impressive and functional CAD designs

During the CADathon, participants had the opportunity to participate in a series of workshops covering a variety of CAD-related topics. These workshops are designed to provide expert guidance and enhance participants' skills.



COMMUNITY BRAZIL

SPREAD
KNOWLEDGE



SHARE EXPERIENCES AND
KNOWLEDGE

“FORA DAS QUADRAS”

is an interview series that dives deep into the world of competitive robotics. In each episode, teams have the opportunity to share valuable insights about their robots, game strategies, design, and more.

"Fora das Quadras" not only highlights the diversity of approaches and solutions found in the world of competitive robotics, but also offers inspiration and learning for viewers of all ages interested in technology and engineering.



Fora das Quadras |
Legonautas - 17731

Comunidade de Equipes FIRST BR
135 visualizações • há 5 meses



Fora das Quadras |
TechMaker Challenge - ...

Comunidade de Equipes FIRST BR
87 visualizações • há 5 meses



Fora das Quadras | Justice
21036 (FTC)

Comunidade de Equipes FIRST BR
188 visualizações • há 5 meses



Fora das Quadras | Stardust -
9200 (FRC)

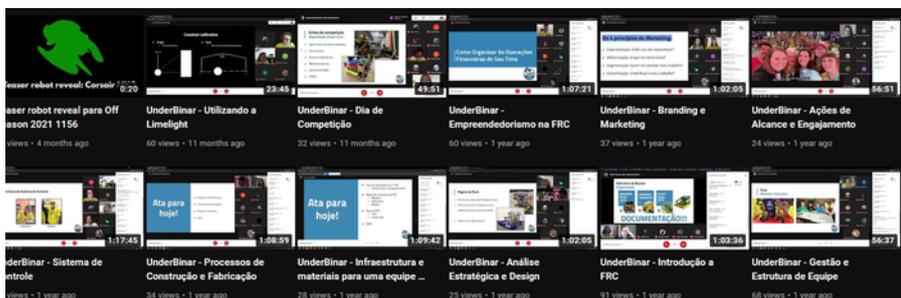
Comunidade de Equipes FIRST BR
99 visualizações • há 4 meses

UNDERBINARS



In 2019 we created the UnderBinars project, which similarly to Brazil FIRST® Week Seminar, was a series of livestreamed webinars and Q&A sessions going over various aspects of FIRST® Robotics Competition, which would then be available on demand.

The project provided 20+ hours of free informative content to 15 FRC teams since then, with plans for more livestreams in the future. The objective of this event was to provide support and assistance to teams that are starting their journey in the category.



TOPICS

- An introduction to FRC
- Team management and structuring
- Competition day
- Entrepreneurship
- Team infrastructure and materials
- Building and fabricating processes
- Strategic analysis and design
- Outreach projects
- Branding and marketing

UNDER DEVELOPMENT



Our team started the Under Development project in 2023, which is a deep mentoring process run by pairs of our students & mentors.

We weekly met online with 7 Brazilian FRC teams in 2023. In 2024 we initiated the process with other 3 teams, to help their rookie path through their first ever build season.

THE SERIES

Through the same project we also post weekly FRC content on social media & resources on our website for other teams to easily access information, reaching 3.6k people so far.

MENTORED TEAMS

- BBtech 9046
- Tecrobot 9166
- All Might 9162
- BrainMachine 9175
- TechMaker 9047
- Mont 9305
- Cavalo Vendado 9066
- Krypton 9487
- Robots District 9484
- Meta Knight 9617

TOPICS

- An introduction to FRC
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UNDER

Thinking about how we can help our community beyond robotics, we were inspired by the Giving Tuesday project, which incentivizes people to donate something every tuesday. Donations include food, clothes, toys, knowledge, love, quality time, and more.

We developed a project called Under Donations, in which we carry out donation campaigns together with many institutions in our region. At the beginning of the project, we launched the blood donation campaign for our city's "HemoCentro", in addition to collecting food for our city's food bank.



Other donations we made during the year to our community:

- Blood donation;
- 66kg of non-perishable food;
- Caps for AMO;
- Donation of toys to APAE;
- 20 toys donated at solidarity Christmas.



**GIVING
TUESDAY**

GivingTuesday, often stylized as #GivingTuesday for hashtag activism purposes, is the Tuesday after Thanksgiving in the United States. It is presented as a "global movement of generosity that unleashes the power of people and organizations to transform their communities and the world.

DONATION DAY

In Brazil, the Donation Day was held for the first time in 2013, a year after the first edition in the United States. Since 2014, Brazil has been part of the global movement, which nowadays has 85 countries participating officially.

DONATIONS



From the beginning of the project we calculated it to always be able to expand more and more. We partner with Centro Medianeira, which encompasses education for underprivileged children in the Vale dos Sinos region.

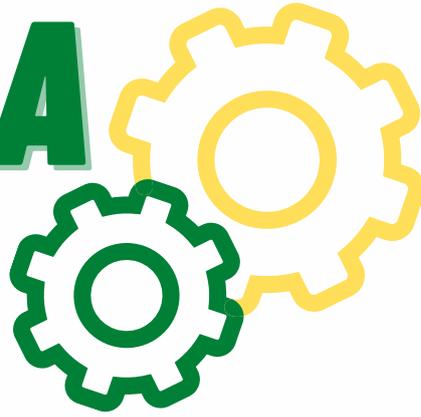


Currently, the institution offers socio-educational, professional initiation, cultural, recreation and leisure activities to minors. It provides two meals per shift and provides consultations with social workers, a psychologist and a nutritionist.

With them, **we hold starter robotics classes for children aged 6 to 11**, which enables greater learning and recognition of the modern and recreational world. We hold classes for a period of one month, every Thursday, making a point between Giving Tuesday, as a way of donating quality time.



ROBÓTICA PARA TODOS



1ST EDITION



Motivated by the recognition of the existing disparity in the Brazilian education system and the importance of science and technology in the educational improvement of children, 1156 created the Robotics for All project in partnership with stemOS.

The project has donated 60 scalable Arduino kits and didactic materials, involving 5 FIRST® teams as ambassadors and building a sustainable program for the students.



We partnered with our city hall to continue Robots for All, giving robotics classes at Presidente Prudente Municipal School, instructing 12 students, ages 12 to 14, which took place over 10 weeks.

Introducing robotics to children who never had access to it, presenting methods of programming and building robots with the Atto kit.

Presiding over the continuity of the project, we developed together with the training of teachers to continue the classes, and counted on the support of the city hall to apply the course in all municipal schools, ensuring its growth and sustainability.

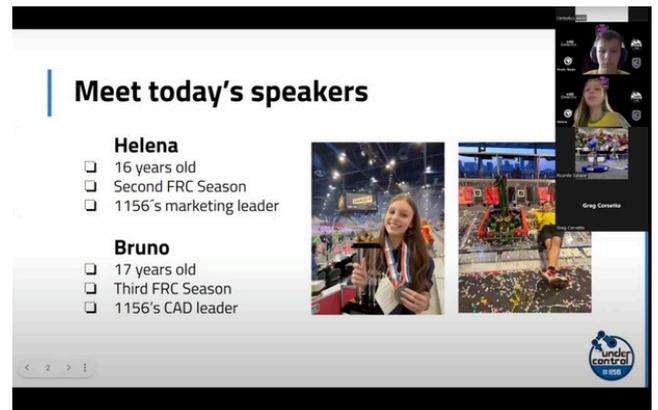


2ND EDITION...3RD

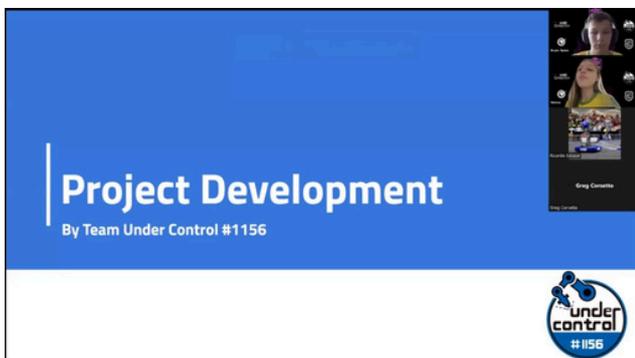


FRC WARM UP

In 2023 & 2024, one of our students, Bruno, teamed up with the teams Cerbotics #4400 & Space Cookies #1868 to co-host the FRC Warm Up. The event consists of +15 hours of webinars with notable panelists sharing knowledge about FRC. Also, as 300 attendees & 12 countries were present, the hosts, including us, were translating the transmission from english to spanish and portuguese, increasing accessibility.



We harmonized with 264 teams that were present this year during FRC Warm Up. 1156 was invited to do a lecture on Outreach Project Development in both editions, reaching ~240 viewers from different teams in 2024.



THE EVENT COUNTED WITH
264 teams present



EVENT OFF-SEASON FRC 2021



With the success of the Off Season Brazil 2019, SESI invited 1156 to run the 2022 FRC Off-Season event, a middle step to have an official FRC regional, scheduled to happen in 2023. This will lead to a massive increase in the number of FRC teams and complete the implementation of the full FIRST program from FLL to FRC in Brazil. This will also unlock the full potential of FIRST in all of Latin America, by turning the Brazilian Regional into a viable hub for all of these teams to compete in.

INTERNATIONAL FESTIVAL SESI OFF-SEASON 2022

In 2022 we supported the Off-Season Brazil, ran by SESI. The event counted with 28 BR FRC Teams, an official game field for the first time in over 15 years, and was the first opportunity for many teams to compete. From the 87 volunteers present in the event, 12 were Under Control alumni, and the rest of them were invited by us. The event was a huge success and a big step towards establishing FRC in Brazil.



FESTIVAL SESI
DE ROBÓTICA

INTERNATIONAL FESTIVAL SESI OFF-SEASON 2023



In 2023 we had the satisfaction of supporting the Off-Season Rio event, organized by SESI. The competition counted with the participation of 88 Brazilian FRC & FTC teams. This event represented the first competitive opportunity for many teams. The success of the event marked a significant advance for the implementation of FRC in Brazil, further strengthening the community and promoting the expansion of the robotics field.

FESTIVAL SESI DE ROBÓTICA

BRAZIL REGIONAL 2023



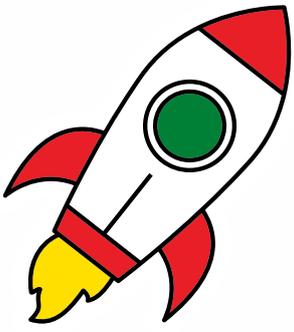
Reaching our goal traced back in 2019, the first FRC regional in Brazil in 15 years took place in 2023. Our team provided 18 volunteers and had others participating in the organization committee of the event.

Being a huge milestone of collaborations between the national operator, SESI and FIRST. Enabling that more students have the opportunity to participate in a FIRST event in their own country, counting with a big structure provided by the operator.

BRAZIL REGIONAL 2024

Reinforcing the establishment of all categories in the country, the 2024 FRC regional was even larger than last year. It counted with 100 FLL teams, 57 FTC teams, and 56 FRC teams. We provided many volunteers to the events such as pit admins, referees, robot inspectors and matches MCs. FIRST in Brazil keeps expanding and we are extremely grateful for being part of that process since day one.





SINOS VALLEY

3ª EDIÇÃO SINOS VALLEY CHALLENGE

From the 2nd of february to the 3rd, we ran the third edition of Sinos Valley Challenge, the biggest FTC scrimmage event in our region.

The event was organized and hosted by the teams Under Control 1156 and Under Ctrl 14391, with the help of stemOS and Colégio Marista Pio XII.

CHAMPION ALLIANCE

RAGNAROK #23061 E ALPHA BYTE #20858

FINALIST ALLIANCE

AGROTECH #19193 E CAVALO VENDADO #16786;

DESIGN AWARD

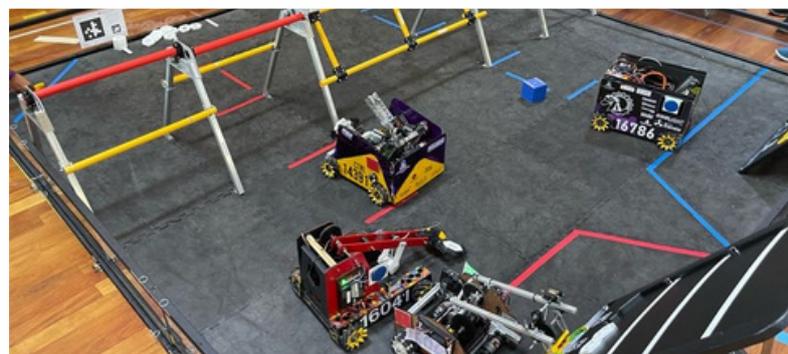
LÖSUNGS JÄGER #21342

CONTROL AWARD

AGROTECH #19193

TEAM SPIRIT AWARD

TECH FÊNIX #23055



CHALLENGE



23 members of our team volunteered at the event, acting as room judges, where they gave feedback to teams about the presentation, 5 official court judges, 4 were on the organizing committee and much more.



FRC IN SINOS VALLEY

The event counted with half a FRC training court and 3 teams of the region, Mont 9305, The Brazillian TrailBlazers 1772 and Under Control 1156. The teams were able to have an exchange of experiences during the build season, that is necessary to help solve various problems.



The "Cantinho das Mães" was an important part, helping the event by selling snacks for the public. Organized by our team's Booster Club, the money raised is converted into funds for the team.

**33 PARENTS
ACTING AS
VOLUNTEERS**

The Festival Marista de Robótica annually reunites students from Marist schools and external educational institutions, that gather, during two days, to experience challenges and research involving Educational Robotics, the Creative learning, the Codification and the Entrepreneurship. And it also counts with over 2 thousand students from public and private institutions.



Educational Robotics is present in our school's curriculum, from Kindergarden to High School, integrating a series of inovative initiatives that insert technology into the daily life of the students.



With team work, the students solve STEAM challenges, improving their programming and creativity skills, building projects with diverse materials. **After running the event for 5 editions, we set the downbeat to make it self-sustainable, but we still provide +290 hours of volunteer work annually.**



DE ROBÓTICA

Festival
MARISTA 
de **ROBÓTICA**



The 15th edition of the event happened in november 9th and 10th of 2023, in PUCRS' Event Center. In the Festival, the students were encouraged to join four categories: Robots' Challenge, Drones' Challenge, Lab City and Incubating Ideas.

Desafio de **ROBÔS**

Students from the 4th year of Elementary School to the 3rd year of High School from public and private schools were challenged to build a robot.

The missions aim to develop different skills related to the four Areas of Knowledge. Each mission is unique and will require construction and skills from the teams.

Desafio de **DRONES**

Basic Education students, from the 4th year of Elementary School to the 3rd year of High School in public and private schools.

In a large screen-protected arena, teams need to carry out missions with a specific theme. Beyond the specific score for each mission, the shortest route time and the best strategy are criteria to define the winner.

Cidade **LABORATÓRIO**

Students from Level 3 of Kindergarden to the 9th year of Elementary School in public and private schools. They create solutions for cities based on the proposed central theme, taking into account their applications and importance for society.

To illustrate the solutions, students use metaverse co-creation platforms.

Incubando **IDEIAS**

This challenge involves mixed teams of students from the 6th year of Elementary School to the 3rd year of High School from public and private institutions.

The teams were challenged to create, design and document solutions that use or are related to technologies developed to solve problems identified in everyday life, respecting the three axes of sustainability: economic, social and environmental.

SOCIAL MEDIA



Under Control is mostly present on Instagram and TikTok, but also Facebook, Twitter, YouTube and LinkedIn.

Through modern trends like Throwback Thursday and producing humorous videos, we manage to connect with a younger audience, and still keep a sponsor friendly public appearance through standardized post templates and frequent shoutouts to partners and other teams.

Our social media is also a great resource for us to post relevant content to other teams.

Related to our project Under Development, we created the weekly series with the same name, regarding all kinds of FRC tips, recommendations and instructions. We also do weekly recaps, in which we describe in detail what was done by our team during each week of the build season and posts about our sponsors.

NUMBERS

- **6400+** followers across all 4 platforms
- **470+** YouTube subscribers
- **90+** videos uploaded to YouTube
- **73,670+** views in total
- **8,4M** people reached in TV shows
- **2,2M** people reached through newspapers
- **84,395** accounts reached by posts on Instagram
- **687.336** impressions on YouTube

WE ARE HERE:



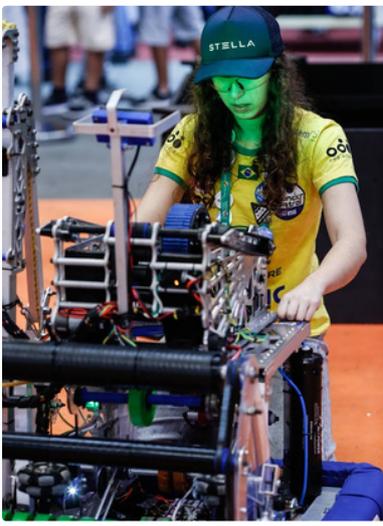
PEOPLE REACHED

WE TRAVELED **90.461**
PASSENGER-MILES TO ASSIST
AND MENTOR FIRST TEAMS

AND WE DIRECTLY INVOLVED
100 THOUSAND PEOPLE WITH
FIRST.

NOTABLE EVENTS

- SESI ROBOTICS TOURNAMENT - OFF SEASON FRC BRASILIA (2021): 5288 PASSENGER-MILES
- FESTIVAL MARISTA DE ROBÓTICA (2021) - 543 PASSENGER-MILES
- DEMO BRAZILIAN CONGRESS OF INDUSTRY INNOVATION (2022): 4260 PASSENGER-MILES
- POCKET SESI SP (2022) - 5702 PASSENGER-MILES
- FTC NATIONAL (2022) - 17049 PASSENGER-MILES
- POCKET SESI SC (2022) - 1238 PASSENGER-MILES
- SESI@COMCIÊNCIA (2022) - 694 PASSENGER-MILES
- FESTIVAL MARISTA DE ROBÓTICA (2022) - 543 PASSENGER-MILES
- FESTIVAL INTERNACIONAL SESI DE ROBÓTICA (2022) - 19646 PASSENGER-MILES
- FLL APOLLO VISIT (2023) - 127,7 PASSENGER-MILES
- FLL REGIONAL (2023) - 223,7 PASSENGER-MILES
- FESTIVAL MARISTA DE ROBÓTICA (2023) - 549,3 PASSENGER-MILES
- FRC REGIONAL (2023) - 19843,5 PASSENGER-MILES
- FESTIVAL DE ROBÓTICA SESI OFF SEASON RIO (2023) - 14754,5 PASSENGER-MILES



Girls in Control Girls in Control Girls in Control Girls in Control
Girls in Control Girls in Control
Girls in Control
Girls in Control

Girls In

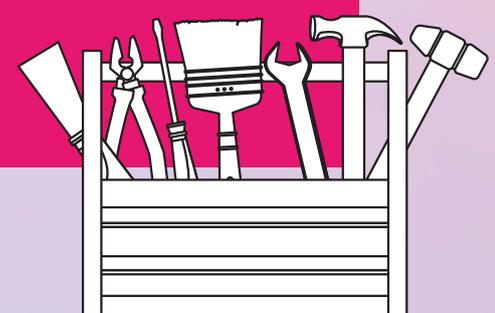
WE CAN BUILD

THE CREATION:

To create environments where women feel empowered & encouraged to pursue STEAM fields, 1156's girls started the Girls In Control project, increasing their representation on the team by 136% in its first 3 seasons.

WORKSHOP:

- To encourage girls to join our team, we promoted the Recruitment Day, where workshops of various different areas of our team to the 1st and 2nd grades of high school were offered.
- We visited NGOs for children in need, by doing activities and donating items.





BEYOND BRAZIL

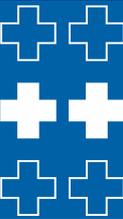
ROBOTICS WITHOUT BORDERS

Aiming to reach even more countries to spread the *FIRST* message, Under Control created the Robotics Without Borders project, partnering with Coderina EdTech Foundation to run mentoring projects for 15 FTC teams from Nigeria.

The implementation of this project is making the development of the category viable in both countries, opening new frontiers.



VOLUNTEER WORK



- 2021 - Robotics Kits donated to Brazilian public schools
- 2021 - Diaper donation to AMO
- 2021 - Donation of face shields and masks at Hospital São José
- 2022 - Chicken Donation to Lar São Vicente and Lar Saúde em Vida
- 2022 - Bottlecaps donated to AMO
- 2022 - Giving Day Blood Donations
- 2022 - 66kg of food donated to Food Bank
- 2022 - Demonstration at SESI@ComCiência
- 2022 - 3 Demonstrations at Marist Pio XII School
- 2022 - Demonstration at Festival Marista Robótica
- 2022 - Demonstration at EMEB
- 2023 - Visits and Girls In Control books donation to Centro Medianeira
- 2023 - Demonstration at EMEB Presidente Prudente
- 2023 - Donation of 80 kits to Liga Feminina de Combate ao Câncer by Girls In Control
- 2023 - Donation of toys and school supplies in the Santa Claus campaign at the post office
- 2023 - Lego classes at Centro Medianeira for a month





SWERVE CLUB



Thinking about improving the performance of our robots, we started the Swerve Club project, with the aim of raising money to invest in traction.



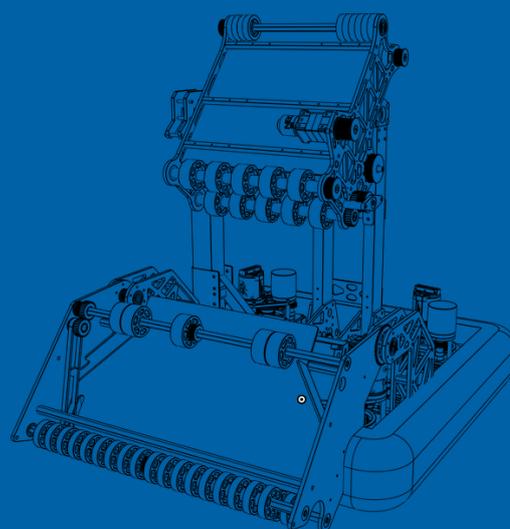
Swerve Drive is a type of drivetrain in which each wheel can point in any direction. For that the chassis uses:

4 modules with 2 motors each

One controls the direction while the other controls the speed of the module. That allows for a greater degree in freedom and control in comparison to the kitbase's AM14U5 drivetrain.

VIPER

The **Swerve Drive chassis** made it possible for Viper to score the objects **twice as fast and agile**, because it rotates the robot while doing the translation, allowing it to have a smoother cicle.



To make this project come true we counted with the support of our sponsors, two of them being stemOS and Upsensor.





UNDER TRIP

In the end of 2023, Under Control initiated the Under Trip project, that aimed to reduce the travel cost of the competitions, that are payed by the members themselves.

Companies and businesses were contacted to assist in this process, where we presented our proposal regarding the amount supported.

Our sponsor, Cypress Turismo, helps us since 2004 with the logistics of passports, visas and purchase of tickets.

They were a big partner for this project.

SUPPORTERS



BUSINESS

SWOT ANALYSIS



BUSINESS MODEL CANVAS



CHART & BUDGETS

Main Mentors:
Matheus Delazari
Cibele Gonchoroski

Mechanics/ Production	Electric/ Programming	CAD	Awards	Business	Marketing	Mentors Suport
Matheus D.	Bruno Toso	Henrique	Cibele	Isabela	Júlia	Cibele
Mateus	Luca Carvalho	Victor	Guilherme L.	Ana Amora	Helena	Pedro

Students

Artur Koch	Maria Eugênia	Arthur Duarte	Helena Reinhart	Juliana Ferraz
Bruno Nunes	Lucca Becker	Mateus Maus	Giovanna Isoppo	Marianna Cardoso
Ico Johann	Ana Amora	Victor Zanchi	Virginia Pieri	Kauã Roese
Luca Carvalho	Günther Steinmeier	Guilherme de Souza	Valentina Loeblein	Gabriel Kalsing
Vitória Gomes	Arthur Guiel	Ben Hur Schmidt		

BUDGET TABLE 2024

Build Season		Travel - cost per student	
Incoming		Incoming	
Marist	\$8 140.00	Fundraising events	\$90.00
Fluidic	\$400.00	Parent Fundraisers	\$120.00
Stella	\$2 000.00		
John Deere	\$4 500.00		
stemOS	\$1 000.00		
Qualcomm	\$2 000.00		
Rockwell	\$3 000.00		
Domínio Tributário	\$4 000.00		
Total	\$25 040.00	Total	\$210.00
Outcoming		Outcoming	
Materials	\$3 650.00	Hotel	\$270.00
Marketing Materials	\$250.00	Food	\$120.00
Regional Registration	\$5 000.00	Vans	\$300.00
		Extra	\$75.00
		Air Tickets	\$450.00
Total	\$8 900.00	Total	\$2 085.00

SPONSORS

STELLA

FLUIDIC
automação industrial



stemOS
NEXT LEVEL ROBOTICS

Metalúrgica
Maus
Desde 1970



COLÉGIO MARISTA
PIO XII



JOHN DEERE

RA
Rockwell
Automation

Ciisa

scheid
ESQUADRIAS

000
odd.studio

DOMÍNIO
TRIBUTÁRIO
GESTÃO TRIBUTÁRIA INTELIGENTE

COFER
Oxi

Qualcomm

CYPRESS
TURISMO

e-core

UP
SENSOR
TECNOLOGIA

Prof.
LUCAS SILVA
Certificações

MAGNOLIA
MOVELARIA

SPONSORSHIP

1156 has an excellent portfolio of sponsors: John Deere contributes with funding and mentoring; Marista Pio XII contributes with workspace and funding; the Marist Network allows us to organize robotics events; CoferOxi and Maus provide machining services; Cypress Turismo backs us with travel and insurance assistance; Fluidic provides pneumatics materials; Stella provides 3D printer material; and others.

19 SPONSORS IN 2024



Our relationship with our sponsors goes beyond any funding. We helped implement the John Deere Inspire Program in Brazil, which allowed us to initiate and guide FLL teams in Horizontina and Montenegro.

Our partnership with Stella allowed us to develop a project for our new students. Challenged to design a new mechanism to facilitate company operations, the students had contact with Stella professionals, receiving full support in the development of an industrial-level product.

The support from stemOS allows us to organize several robotics events in our region and beyond. Furthermore, it facilitates the purchase of important materials for our robot.

TESTEMONIALS



PATRICK O. BARNES

GLOBAL PROGRAM DIRECTOR - JOHN DEERE



"We have a long standing partnership with Under control, and whats really neat about it is they've really helped us on Brazil with starting FIRST teams. And so what was really cool, beyond just supporting them in terms of their FRC team, has been

supporting starting new FLL teams around Brazil and I think they even helped in Argentina, helping train volunteers, helping train judges and then help teams and so its a much larger strategic partnership, beyond just a robot."

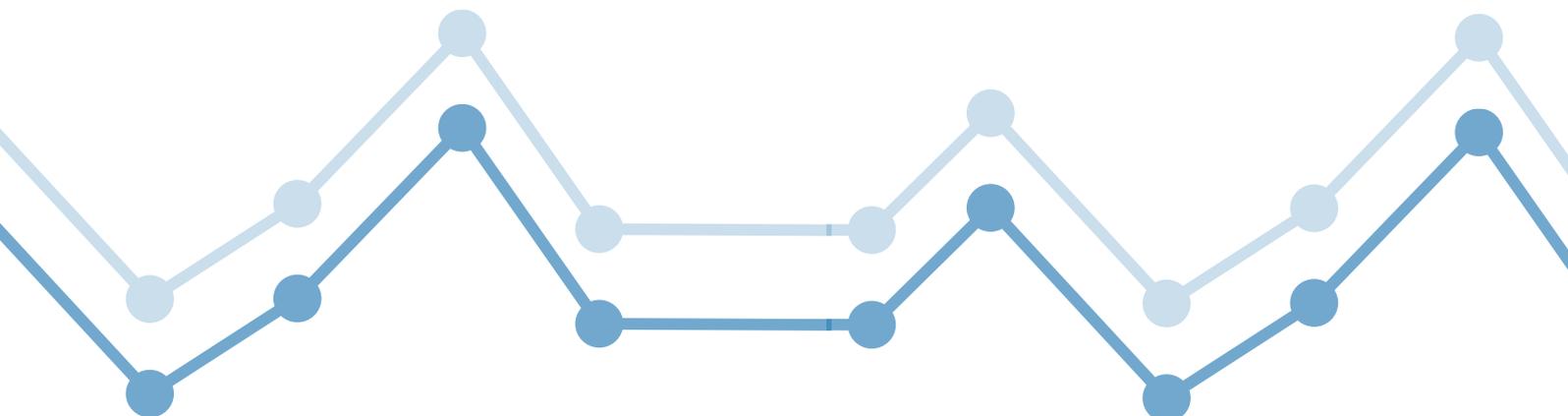




FABIANA PEDRINI

REGIONAL OPERATION PARTNER FOR FLL IN LATIN AMERICA

"(...) 1156 not only came from Brazil to help more than 40 people as volunteers and judges but also helped us to organize this event, so this wouldn't be possible without their help. The importance of this event is we are having more than 26 countries here, more than 70 teams, and to share and learn and inspire, I think that's the word 1156 can be defined by. 1156 inspires people all around Latin America, and now with the Open FLL Uruguay, all around the world."



FUTURE PROJECTS

We have been accomplishing great things in the past years, and we want to do even more to reach our main goal, globalizing *FIRST*®. Here are just a few of our future objectives:

- Mentor 2-3 NEW FRC Teams per year;
- Create and assist on running new *FIRST*® events on different regions on our country;
- Expand educational robotics in the Marist network;
- Run a scrimmage event as the last step of the Robotics For All project;
- Become an institution to have more freedom and control of our finances and to have access to public notices;
- Be more present in our local community;
- Keep spreading *FIRST*® beyond our community
- Engage with a minimum of 10 institutions per year;
- Progress on mentoring *FIRST*® teams;
- Become more sustainable when it comes to environmental matters.

