

Welcome to 1156's charging journey! We're about to show how we charged South America's battery through FIRST's values, creating opportunities for those who didn't have access to STEAM. Since our first spark in 2002, 1156 has been able to generate shocking results & lasting impact, wiring stronger connections with partners & sponsors, keeping our energy high and stable while empowering our members to grow. Together, our 24 students & 12 mentors will present the path that leads to a fully charged country.

Put on some safety glasses & get ready to get energized!

INITIAL CHARGE

1156 receives vital energy from its supporters: sponsors, alumni, mentors & parents.

We have 15 sponsors, whose partnership goes beyond just funding, e.g. Stella & Fluidic, who provide us with materials, services & mentorship, alongside internship programs for our members, opening doors to career development. In return, we use their energetic potential to support others & multiply the impact they have on us. 9 of our graduates have been hired by 1156's sponsors in the last 3 years.

One of 1156's greatest strengths is experience, & our alumni elevate that to electrifying heights, with some even starting their own companies. One example is stemOS, a company founded by 1156 alumni that is the exclusive importer of FTC/FRC kits & the official reseller for AndyMark, REV & goBILDA in Brazil, quickly becoming one of our main collaborators on events & mentoring projects. Additionally, 56% of our alumni keep sharing their energy to our team & FIRST after graduation, acting as mentors, judges & volunteers.

After gathering all of these resources, we are 20% charged!

ENERGIZING OUR COMMUNITY

During the pandemic, 1156 ran donation campaigns for families in need, donating over 1.5 tons of food & manufacturing 658 PPEs to help 18 hospitals & NGOs. To keep the Brazilian youth energized during difficult times, 1156 launched the *Robots For All* project responsible for donating 60 robotics kits & developing a full online curriculum for over 200 quarantined students. Alongside 5 *FIRST* teams, the project has reached 6 Brazilian states.

After the pandemic, we partnered with our City Hall to continue *Robots for All*, giving robotics classes to 12 students for 10 weeks in an underprivileged school & introducing robotics to kids who never had access to it, while keeping it charged by training teachers to continue the classes, & have the city hall's support to rerun it, ensuring its sustainability. Furthermore, we've partnered with local hospitals & social organizations to give children in need a chance to have their first experience with robotics through our visits, like AMO Criança, a child cancer institute, with whom we've impacted 430+ kids in the last 3 years.

We strive for a connection of mutual benefit with our school, which was the 1st in Latam to have full progression from FLL to FRC, thanks to 1156's work. In 2022 we implemented FLL in our school curriculum for 5th graders, introducing 90 students to FIRST through FLL tournaments ran by 1156. The project already has the school network's financial backing to run until 2027 & is planned to be expanded to others of the 96 Brazilian Marist schools. We also showcase our robots in various school events, reaching over 3.4k people in 2022.

Beyond *FIRST*, we've run the first 5 editions of the largest robotics event in our state, Festival Marista de Robótica, transmitting enough energy to make it sustainable, inspiring 2k

students every year. We keep on volunteering at their follow-up editions, contributing with +162 hours of volunteer work annually.

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. Our actions are also influencing women in other teams, like Flávia, from FTC team 18066, who said: *"Benderminds had a girls project during Freight Frenzy season, that was influenced by existent projects in other FIRST categories such as FLL & FRC, one of them being 'Girls in Control'".* We also wrote a book about women in STEAM & an activity book that we took to Centro Medianeira as a volunteer work, energizing +270 kids.

By making STEAM accessible to our community, we generated enough inspiration to charge up to 40%!

ENERGIZING OTHER TEAMS

To share energy with other teams, we have strong partnerships & support projects that have been a key source of assistance to FIRST teams in Brazil. Like the *FIRST Teams Community Brazil*, a movement acknowledged by *FIRST* that connects 360+ Brazilian teams from all of *FIRST* categories, by creating content, spreading *FIRST* news & sharing projects from teams all over the country.

Partnering with Coderina Foundation from Nigeria, we started the Robotics without Borders project in 2021, where we mentored 15 african FTC teams by hosting weekly online lectures & Q&A sessions about tech & non-tech aspects of the category.

Our relationship with SESI, the Brazilian PDP, has boosted FIRST in the country. We combined SESI's resources & infrastructure with our knowledge & experience to implement FTC in Brazil for the past 4 years. Together, we started 28 FTC teams, by providing initial training and assistance with their registration process with FIRST. We also trained the 1st Brazilian mentors & judges in the category.

With FRC in Brazil beginning to take shape, in 2021 we started the UnderBinars project, a mentoring process powered by weekly Q&A webinars, energizing 15 FRC teams through STEAM classes focused on different aspects of FRC & continued support. With its success, we doubled down & started the Under Development project in 2023, a deep mentorship run by our students & mentors with 7 BR FRC teams, lighting up their rookie path through their first ever build season. 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.

All of these connections boosted our battery to 60%!

ENERGIZING EVENTS

After harnessing our PDP's power to create & mentor teams, we went on to events. We ran the first 2 FTC National tournaments alongside SESI, & supported all follow-ups. In 2021 we supported the stemOS FTC Off-season & ran 2 other FTC Off-seasons with their help, reinforcing the category's presence in our local community. All the electricity we supplied took FTC from having zero presence in Brazil, to including over 1.2k competitors yearly in multiple competition hubs with 55 teams actively competing.

Starting the charging process for FRC in the country, 1156 ran & hosted Off-Season Brazil 2019, featuring 11 teams & reaching 3k people. Recognizing this event's success, SESI once again partnered with 1156. Starting with the online FRC Off-Season 2021, 15 pre-rookie teams were started & 23 teams gathered to compete, featuring 300 competitors that got to put their skills to the test & practice for a real competition setting.

By then, Kátia M. SESI's Tech. Ed. Manager, spoke about us, saying: *"This work relationship is paving the way for several exciting projects including the upcoming 2022 FRC Off Season"* foretelling the prosperity of the category in Brazil. This happened in 2022, where we supported the FRC Off Season event, the 1st with an official game field in 14 years. With veteran *FIRST* judges amongst those trained with the help of 1156. Having 28 Brazilian teams, it was crucial to skyrocketing the growth of FRC in Brazil, giving students the experience of a full scale *FIRST* event. 50% of the FRC teams were mentored by 1156 & 12 volunteers were our alumni, who trained other volunteers with our assistance. The astonishing success of the event showed that Brazil is more than capable of sustaining a healthy FRC community.

Marking its 20th anniversary, Under Control has achieved its greatest goal: the 1st FRC regional event in Brazil since 2008. Historically, all South American teams had to travel continents & face high costs to compete in regionals, but this financial barrier has been significantly lowered by the 2023 Brazil Regional, which will allow teams to participate in an official event & qualify for the Championship. The event will have national FLL, FTC & FRC competitions & will feature 45 FRC teams from 3 countries. 1156 is supporting the event by providing 18 volunteers & having members working actively in the FRC & FTC organizational committee including translating documents, finding & training all the volunteers in the event and spreading the knowhow we charged during our 20 years in *FIRST*.

With these events opening doors for new & existing *FIRST* teams, and allowing *FIRST* in South America to truly flourish for the 1st time, we've reached full power!

IN THE LAST 3 YEARS, WE:

- Started 8, Mentored 20 & assisted 338 *FIRST* Brazilian teams;
- Mentored 16 teams overseas;
- Traveled 75.218 passenger-miles to assist & mentor *FIRST* teams;
- Doubled the number of active Brazilian FTC/FRC teams;
- Supported/ran 12 Brazilian FTC/FRC events;
- Directly involved 102k people with *FIRST*.

1156 has been involved in the establishment of FTC & FRC in Brazil ever since 2018. We followed this plan rigorously throughout the past 5 years, & although our partnerships supercharged us along this journey, our work is still far from done. Our goal, although ambitious, has always been globalizing *FIRST*, and establishing it in Brazil is only the first step. With the entry barrier for South American teams being massively lowered, we plan to incentivise the creation & maintenance of new teams through mentoring & publishing resources, besides keeping the battery charged here in Brazil.

As we move towards bigger & better goals, we remember and honor our beloved Woodie's words during his showcase at the 2019 Championship: "1156 is killing it, giving

opportunities without borders". We'll work to keep doing that, because the power is Under our Control.