

Welcome to 1156's latest mixtape! These songs explain how our team spreads STEAM to the youth & to our own generation, echoing FIRST's values. Since our debut album in 2002, our band has been instrumental in making robotics mainstream locally, nationally & worldwide. However, none of it would be possible without our producers: sponsors, alumni, mentors & parents. Currently, Under Control's group is composed of 25 students & 10 mentors who are about to play.

Get ready for the show 'cause This Is Under Control!

#### TRACK 1: SUSTAINABILITY & INCLUSION

As a band, maintaining annual releases requires many resources.

First, we need sustainable team renewal, balanced by the Repio 2.0 project. Annually, we invite 200+ school's students to participate in 2 original STEAM courses: tech & non-tech. W/ them, students can further their knowledge & develop their interests & talents. They're invited to join the team upon completing the course.

Our parents formed the Booster Club to lead & volunteer in 1156's fundraising events, vital to support our robotics passion. Together, we raised a resounding \$10.4k last year. Using 30% of these funds for materials to improve performance & 70% to reduce travel costs, we could cover ~14% of the \$2.5k per student price for all members going to the Championship.

To inspire girls to enter STEAM areas & create an impact, we started the Girls in Control project. For 5+ years, it's been an essential instrument in increasing our team's feminine representation through actions like workshops led by 1156's girls, resulting in 2/3 of the students joining in 2024 being women. 1156's girls are also making a difference in our community, e.g. the Breast Cancer Awareness Month campaign, where we donated 80 hygiene kits to a cancer care NGO & produced awareness videos.

The crowd loved our acapella 'cause we are Under Control!

#### TRACK 2: SPONSORS

Apart from the band's sustainability, our 19 sponsors are a key instrument in several other aspects.

Their support goes beyond funding, offering career development opportunities through internships & STEAM projects. E.g. We developed a CAD program w/ STELLA, where students solved a real-life production issue by designing a mechanism for use at their factory.

12 of our graduates have been hired by our sponsors in the last 3 years. Additionally, 3 sponsors are STEAM startups founded by 1156 alumni: OddStudio, UpSensor, & also stemOS: the official importer of FTC/FRC kits & a key player in offering mentoring services in Brazil.

Our producers boost our volume up, 'cause we are Under Control!

#### TRACK 3: SCHOOL

The value of learning is no surprise to 1156's members, & the use of STEAM in the school environment just amps it up!

We made our school the 1st in LATAM to have full *FIRST* progression from FLL to FRC, giving children a smooth transition between programs. In 2022, 1156

integrated FLL into the 5th grade curriculum, presenting 90+ students annually to *FIRST* through in-depth classes & internal tournaments run by us.

Pio XII Marist School has been our studio since 2002. By representing them in competitions, the institution supports us even more, setting the stage for connecting robotics to hundreds of students. Marist Network's representatives recognize our initiatives keeping in sync as we reach other schools of the chain. In Marist Medianeira, we started 2 teams beginning a new *FIRST* tour through Marist Schools.

We turn our school into a stage for innovation 'cause we are Under Control!

#### TRACK 4: LOCAL COMMUNITY

As a performer of *FIRST* in Porto Alegre's Metropolitan area, 1156 stays loud in its local community.

Through the Under Donations project, we organize monthly donations based on our community needs. Our band donated 2.8k units of clothing, water & hygiene supplies to families devastated by the numerous climate disasters that struck our state.

Our band volunteered at Medianeira Center in 2023, conducting LEGO classes to ~50 kids for a month. 1156 also donated copies of the authorial book "Girls in Control: Revolutionary Women in STEAM", amplifying its reach to 300+ kids who regularly visit the center, & showing young girls they can take the stage on STEAM.

After the 1st edition of the Robots For All project, which harmonized 200+ quarantined students w/ robotics in 2021, 1156 reprised it to take another step towards STEAM accessibility. In 2022, we collabed w/ our City Hall, giving robotics classes to 12 students for 10 weeks in an underprivileged school. This way, we debuted robotics to kids who never had access to it, while training teachers & securing city hall support for its sustainable rerun.

We established our state's biggest robotics event, Festival Marista de Robótica, attracting 2k+ students yearly. W/ teamwork, they solve STEAM challenges, enhancing their programming skills & creativity through building projects w/ diverse materials. After running 5 editions, we set the downbeat to make it self-sustainable, but we still supply 290+ hours of volunteer work annually.

We're never letting go of our roots, 'cause we are Under Control!

#### TRACK 5: MENTORSHIP, ASSISTANCE & COOPERTITION

In favor of a united community, we make sure to share *FIRST's* rhythm w/ everybody.

In 2021, we started the UnderBinars project, a mentoring process performed via weekly Q&A webinars, getting 15 rookie BR FRC teams in the groove through STEAM classes & continued support.

W/ the Under Development project, we provide deep mentorship to BR teams starting out their journey, combining our 20+ years of experience. Since 2023, we've mentored 10 rookie teams through daily contact in the build season, lab visits, & ongoing competition assistance. We also invited team 9484 to our lab, who traveled over 1.3k+ miles for a firsthand look at our work practices & structure in week 1.

We lead the *FIRST* Teams Community Brazil, a movement acknowledged by *FIRST* that connects ~400 BR teams from all *FIRST* categories. As a social media hub, it involves informative content about *FIRST* & teams' initiatives. Through the project, we ran a CADathon w/ 33 teams, featuring workshops from 1156 & 3847. This collective platform exemplifies to BR competitors what Gracious Professionalism taught us: mutual gain & fierce competition can coexist.

You can learn a lot from our lyrics 'cause we are Under Control!

#### TRACK 6: FTC IN BRAZIL

Feeling *FIRST*'s impact on its members' lives directly, 1156 wanted to take all that fuzzi to Brazil.

To start our FTC/FRC national tour, we pitched both programs to SESI representatives during the 2018 Championship, marking the beginning of our collabs. The organization would later become the official *FIRST* operator in BR. Remixing SESI's resources, infrastructure & school network w/ our experience, we pressed play in a category non-existent in BR prior to 2018.

Within the last 3 years, we provided 36+ volunteers to the annual FTC nationals, summing up 816 hours. In addition, we've been running our own FTC scrimmages ft. stemOS. Since 2021, Sinos Valley Challenge has been bringing ~10 FTC teams to our school each year, not only giving them more opportunities to compete & prepare, but also to present their Formal Team Interviews, receiving written feedback from us afterwards.

Another crowd favorite 'cause we are Under Control!

#### TRACK 7: FRC IN BRAZIL

As a South American FRC team, touring overseas was a necessity for decades. We know from experience how costly it is to go abroad, so we decided to step up & support other teams to keep the competition alive in LATAM. The show must go on!

So, in 2019 we performed a duet w/ 1772, running the first BR FRC National Off Season in 11 years. Due to the event's success, SESI & 1156 started the main part of the national *FIRST* tour: FRC. The FRC Off-season 2021 was the opening show, 23 FRC teams gathered to compete & put their skills to the test. Under Control both supported the event & mentored the 15 pre-rookie teams participating.

By then, Kátia M, SESI's Tech. Ed. Manager said: *"This work relationship is paving the way for several exciting projects, including the upcoming 2022 FRC Off-Season"*. Said Off-season was a huge milestone: the 1st event w/ an official game field in 14y. Even larger than the previous show, it counted w/ 28 FRC teams. As usual, 1156 gave immense support to it by mentoring 1/2 of the competing teams, providing 12 alumni volunteers, & training other volunteers. The astonishing success of 2022's event showed that BR is more than able to sustain a healthy FRC community.

After all those tour's concerts, we did our biggest robotics-palooza yet: the 2023 Brazil Regional, the 1st edition since 2008. This event opened doors to 42 FRC South American teams, making official competitions viable & sustainable. We gave

rockin' support by providing 18 volunteers to the occasion & having members working actively in the FRC/FTC organizational committee.

Like a Crescendo, *FIRST* Robotics Competition's presence in Brazil only grows louder, going from 8 teams in 2018 to 56 teams registered for the 2024 FRC Brazil Regional, truly harmonizing South America w/ *FIRST* in all categories!

We finished our tracklist w/ a bang, but the crowd wants an encore 'cause we are Under Control!

IN THE LAST 3y, WE:

- Started 2, Mentored 33 & assisted 504 Brazilian *FIRST* teams;

- Mentored 17 teams overseas;

- Traveled 90k+ passenger-miles to assist & mentor *FIRST* teams;

- Supported/ran 10 Brazilian *FIRST* events;

- Connected w/ 30+ local institutions;

- Volunteered 1.4k + hours in Official *FIRST* events.

Throughout these several albums, songs & tours, 1156 always had its mission in mind: to inspire generations through STEAM, building leaders for the future, promoting values of professionalism, humanity & excellence. As we write our next hits, our focus is to keep expanding said mission, both in our local & broader communities, & getting even more people to dance w/ us, like we always have.

This show has been a blast, but stay tuned, 'cause you'll still hear way more from Under Control!