

1. Briefly describe the impact of the *FIRST* program on team participants with special emphasis on the current season and the preceding 2-5 years.

99% of our students carry on to college while the national average is 19%. 86% of us choose STEM careers. On the last 3 years, 12 members started studying Engineering. For the 2nd year in a row, 100% of the members who graduated went on to study STEM. Our members become addicted to Science & Technology, which lead them to pursue STEM careers and work on companies such as SAP, GM, STIHL, Weatherford, MIT & Riot Games, but also become politicians, entrepreneurs and businessmen.

2. Describe the impact of the *FIRST* program on your community with special emphasis on the current season and the preceding two to five years

Thanks to our recognizable work, we were invited by John Deere to help them start FLL teams. Our actions made the JD Inspire Program possible in Brazil. Our school is seen as an inspiration on technological education in our country, which makes other schools emulate our technological programs. In the last 5 years, we have reached 10,800 people through robotics, from small community events to very large ones, such as the reception ceremony of Rio's Olympic Flame.

3. Team's innovative or creative method to spread the *FIRST* message

We developed 3 LEGO workbook kits for kids from 4 to 9 years old, in partnership with a professional graphic designer. We've developed a CLUE game with *FIRST* theme, to explain *FIRST* to kids while they've fun. We starred a whole episode of the TV program 'Turma da Robótica', that describes robotics, explaining what is *FIRST*, FLL and FRC, showing our robot and explaining how *FIRST* and STEM changed our lives. We gave a lecture in english about *FIRST* and 1156 to the Nike's Creative Office of Brazil.

4. Describe examples of how your team members act as role models and inspire other *FIRST* team members to emulate

1156 is a role model in our country. We have testimonials of FLL mentors talking about how inspired their students are by our work. We show to every team the importance of being inspired and to inspire other: "if you have been helped, it's your duty to inspire back". Team members share their experiences in hospitals & schools, motivating other, to share theirs as well. We act as role models in each event we volunteer, adding up to 140,400 man-miles traveled to establish *FIRST* all-over Brazil.

5. Describe the team's initiatives to help start or form other FRC teams

As the 2nd oldest Brazilian FRC team, 6 FRC teams in Brazil have been **mentored** and 8 were **assisted** by us during their journeys. We presented our work and results in a John Deere Plant and inspired them to sponsor new FRC teams. We act as a model for the robotics program in the Marist Foundation, proposing a greater FRC adoption on the network. We lectured for the Plan Ceibal director, official FLL operator in Uruguay, explaining how to start an FRC team, now they plan to start one in 2018.

6. Describe the team's initiatives to help start or form other *FIRST* teams (including Jr.FLL, FLL, & FTC)

We are directly involved with FLL in Brazil. We assist the Brazilian operator, translating documents and providing judges and mentors training. In partnership with our City Hall, we started 3 new FLL teams in underprivileged schools. We mentored the very first JD FLL team in 2015, our mentorship was emulated for 3 more teams in 2016, with our help the program has increased 300% in one year. This program ended up bringing us to **assist** Uruguayan FLL teams, sharing our knowledge about FLL and FRC.

7. Describe the team's initiatives on assisting other *FIRST* teams (including Jr.FLL, FLL, FTC, & FRC) with progressing through the *FIRST* program

We spare no efforts on helping teams throughout their progression on *FIRST* programs. We lectured over 60 FLL mentors and coaches on how to start an FRC team. We ran an unofficial FLL event for over 30 teams, where we presented the FRC program and made ourselves available to help them. In 2016 we traveled abroad to work as judges in the 1st *FIRST* event in Uruguay, presenting FRC and showing our 2016 robot for teams, volunteers and the public.

8. Describe how your team works **with other *FIRST* teams to serve as mentors to younger or less experienced *FIRST* teams (includes Jr.FLL, FLL, FTC, & FRC teams)**

In 2015 we and 2 more Brazilian teams, 1382 and 1860, participated in World Skills, the largest competition of professional education in the world. There we presented our robots to FLL teams and lectured about entrepreneurship and management. Since 2014, we and team 1772 work as volunteers in all FLL regional in our state. In order to consolidate FLL in our state, we host and run unofficial FLL events in partner with experienced FLL teams, sharing their knowledge to inspire new teams since 2014.

9. Describe your Corporate/University Sponsors

NH City Hall: Funds and opportunities to inspire less privileged students since 2007. Metalthaga: Provide us metal parts since 2012. Severo Industry: Provides CNC machining since 2014. Marist Foundation: Funds support since 2015. Marist Pio XII School: Funds and facilities support since 2003. National Instruments: Professional, funds and supply support since 2016. John Deere: Funds support and opportunity increase FLL teams. 5 minor sponsors: Courovale, Plastfera, Centenário, Clássica and LRB.

10. Describe the strength of your partnership with your sponsors with special emphasis on the current season and the preceding two to five years

We developed a painting robot in partnership with our sponsor Severo to optimize their manufacturing process. Out of 3 people certified by National Instrument's CLAD exam in our state, 2 are 1156 members. The Marist Foundation Network helped us to develop the new sponsorship folder, cleaner and with better conversion rates. The partnership with John Deere and contact with the global director of JD Inspire program created big opportunities for us to help on kickstarting new FLL teams. *Pronta*

11. Describe how your team would explain what *FIRST* is to someone who has never heard of it

FIRST is more than a robotics competition, it's a life experience based on real world challenges. FIRST introduces science and technology in students lives, based on facing challenges with cooperation between teams, generating a healthy & kind environment through engineering. It doesn't only teaches STEM, it also educates us to be better people and inspire others to be better as well. FIRST's students receive lessons that are taken for life inspiring people to spread their knowledge and passion. (490)

12. Briefly describe other matters of interest to the *FIRST* judges, if any

After 15 years working for STEM and engineering, we can notice our cultural influence in our community and on the FLL community that come in contact with us in each event. Our members inspired the youth enthusiasts that will become the next generation of engineers and leaders, who soon will be working to change the world. After all, we realized that working in only one country wasn't enough. It's time to go further and inspire a whole new country. And we have already started doing that!

13. For FRC teams older than 5 years, briefly describe your team's broader impact from its inception.

15 years ago just a few people in Brazil believed 1156 could become a reference on robotics. But we didn't give up. Today, thousands of young Brazilian students are inspired and inspire STEM, part of it due to all our actions. We work as volunteers since 2006 on the first years of FLL in Brazil. We helped training most Brazilian judges and over 60 coaches. We have assisted over 600 teams in 50 FLL events. With 1156 support, FLL in Brazil has reached its current plateau of over 1000 teams.