

## FIRST Impact Award - Team 7018

<b>2023 - Team 7018</b>
<b>Team Number</b>
7018
<b>Team Nickname</b>
EOLOTICS - Peñoles
<b>Team Location</b>
El Espinal, OAX - Mexico
<b>Describe the impact of the <i>FIRST</i> program on team participants within the last 3 years. This can include but is not limited to percentages of those graduating high school, attending college, in STEM careers, and in <i>FIRST</i> programs as mentors/sponsors.</b>
Most of the alumni and current members of our team have the goal of getting to study and finish a university career. Thanks to the impact and influence FIRST had on our team, all alumni graduated from high school; the 96% study a career; 72% study a STEAM career. In addition, 11 mentors who collaborated with us in 3 past seasons were engineering students. This season we have 4 mentors who are alumni.
<b>Describe your community along with how your team addresses its unique opportunities and circumstances.</b>
Our community is located in the region of the Istmo de Tehuantepec, Oax., made up of populations rich in terms of traditions and customs, however, there are limited academic opportunities focused on STEAM, the team has given the opportunity to young people to discover areas within science and technology, promoting them through: The Taller de Verano Eolotics, Science and Technology Festival "ROBOISTMO", Science Fairs, and providing lectures to entry-level institutions.
<b>Describe the team's methods, with emphasis on the past 3 years, for spreading the <i>FIRST</i> message in ways that are effective, scalable, sustainable, and creative. How does your team measure results?</b>
The team is characterized by the spirit that transmits inside and outside FIRST, we are a source of inspiration for young people of all ages with the aim to continue innovating in science and technology. We hold conferences, interviews, journalistic notes and reports where we share knowledge and consolidated values in our stay in the project. Reaching 3100 students aged 6-18; quantifying it through surveys and evidence (Photos, videos and people impacted).
<b>Please provide specific examples of how your team members act as role models within the <i>FIRST</i> community with emphasis on the past 3 years.</b>
We have established ourselves as a reference team since our inception, in our debut year with the creation of a robot that satisfied a function effectively and in the administrative area by winning the Entrepreneurship award for 2 consecutive years. Each member of our team is very aware of the FIRST

values;we identify ourselves as a team willing to support each other and other teams through courses and sharing experiences. In 2022 we inaugurated an FLL team: Eoloteens.

**Describe your team's initiatives to Assist, Mentor, and/or Start other *FIRST* teams with emphasis on activities within the past 3 years.**

As a conscious team that seeks to share its knowledge, we provide training courses to teams such as 8290, 7687 (programming-40Hrs.) and 7577 (security-4 Hrs.), providing them with learning and tools that will allow their development and improvement in their performance; In addition, material was implemented that encouraged the creation of an FLL team (Eoloteens), made up of 11 children excited to enter the *FIRST* community, divided into 3 areas monitored by members of EOLOTICS 7018.

**Beyond starting teams, what initiatives have you done to help inspire young people to be science and technology leaders and innovators? What results have you seen from your efforts in the past 3 years?**

The team has promoted and inspired young people to enter the world of STEAM, thanks to the realization of projects such as the "Taller de verano Eolotics " (2019 and 2022); The Science and Technology Festival (in 2 editions); The science fair (in 4 editions) and activities in cooperation with teams such as 7565 from Brazil. Thanks to this, 3150 young people have been impacted, who have shown greater interest in science and technology and have been integrated into activities related to STEAM.

**Describe the partnerships you've created with other organizations (teams, sponsors, educational institutions, philanthropic entities, etc.) and what you have accomplished together with emphasis on the past 3 years**

To impact our community we create links with companies such as Industrias Peñoles,Pirssa,Vestas and Tral; working together with some organizations: Efecto mariposa, Tizi' nadxie'lii; providing 80k tapas for the benefit of families. We link with schools: Cobao 02 and 56; CBTis No. 91, EST No. 18, 19;and some primaries where we disseminate STEAM activities.In addition to working with the Department of Education and Culture;Injuve, taking care of our traditions and environment through technology

**Describe your team's efforts in the past 3 years to promote equity, diversity, and inclusion within your team, *FIRST*, and your communities.**

Our team is made up of 57% women and 43% men, interpreting through this analysis we managed to reduce gender stereotypes in our team and community. In addition to adapting to the requirements of each student and person participating in our activities, eradicating discrimination and including people with different abilities and people belonging to the LGBT+ community, such is the case of our colleague Biaani who managed to defeat osteosarcoma.

**Explain how you ensure your team and the initiatives you have created will continue to run effectively for the foreseeable future**

As a team committed to what it does, thanks to the implementation of fully planned, studied and documented projects, according to the conditions and needs of our population, implementing the participation of various institutions committed to the projects, it has been achieved that these are self-sufficient, the continuity of these is achieved and allow in turn to collect future members that allow the conservation of the team, the entrepreneurial spirit and values of *FIRST*.

**Describe your team's innovative strategies to recruit, retain, and engage your sponsors within the past 3 years**

We encourage sponsors by presenting the project and how it represents a change in our community, showing statistics of our impact, in addition, we maintain a relationship of reciprocity, involving them in the various projects carried out and inviting them to participate in them, as well as carrying out joint activities. In gratitude, we give them small gifts in addition to granting recognitions, seeking to generate bonds of loyalty and trust.

**Highlight one area in which your team needs to improve and describe the steps actively being taken to make those improvements.**

The areas of the team have been in constant improvement and development, however, we have detected the existing problems in the engineering area, therefore, we opted for the creation of a sub-area in charge of the design of the robot, who, to improve the performance of the team, are taking various courses with FIRST-Peñoles (Design: Solidworks) and UNAM (Industrial Design) that allow better performance and better resolution of problems related to the construction of the robot.

**Describe your team's goals to fulfill the mission of *FIRST* and the progress you have made towards those goals.**

As a team we are very aware of the mission of FIRST, so we carry out activities that consist of disseminating our knowledge to different age groups, mainly young people. Setting clear goals such as visiting or holding conferences in the different educational institutions of our community (13 institutions) where we tell our experience during our career in FIRST.

**Briefly describe other matters of interest to the *FIRST* Judges, including items that may not fit into the above topics. The judges are interested in learning about aspects of your team that may be unique or particularly noteworthy.**

We are a team with an ecological and social responsibility, we have participated in cleaning days collecting waste in more than 8 streets and avenues in our community, in addition to supporting 4 people with serious health conditions contributing \$14,000 MXM to the cause, in addition to supporting foundations with volunteers, in-kind and economic support for the realization of their events, we implemented a cultural project called RESCATANDO MIS RAICES Y MI MUNDO CON LA CIENCIA Y LA TECNOLOGÍA

**Essay**

We are Eolotics 7018, a team from the municipality of El Espinal, Oaxaca, located in the region of the Isthmus of Tehuantepec, made up of 28 students, 5 mentors and 2 coaches (of which 18 are women and 17 men), we are students from 7 different educational institutions strongly committed to spreading the mission of FIRST.

**PROJECTING MINDS** Since our debut, despite the stereotypes imposed in our state, we have consolidated Eolotics 7018 as a reference team that promotes and instills STEAM in young Oaxaqueños to achieve their dreams and professional goals.

We achieved all this with the help of more than 10 conferences given in different institutions of different educational levels, the implementation of the "Eolotics Week" in which we visited around 7 parks in surrounding communities, where we share our experiences and knowledge that thanks to FIRST we have acquired.

In the team we have had 100 students impacted by the FIRST project directly and more than 3,000 students impacted indirectly, with whom we have promoted the values and the FIRST spirit. Since 2018 we have organized the project "Festival of Science and Technology" where more than 1,200 high school students have the opportunity to present science and technology projects, in this way we manage to break the social paradigms about age and difficulties of the same area.

**AND WE CONTINUE TO GROW...** We have inspired the creation of two robotics teams in the FLL category, these being the INFINITY GEARS and SIMONETECH team, who have had the direct support of EOLOTICS for the realization of their activities and sustenance of them. This 2022 has been a year full of emotions, we implemented a new technology in the ESC. SEC. TEC. #18 breaking paradigms regarding educational plans and programs after more than 50 years without evolution. The family grew together with the company FUERZA EOLICA DEL ISTMO, PEÑOLES welcomed as founders our team of FIRST LEGO LEAGUE EOLOTEENS, inviting more young people to dream, create and innovate with ICTs.

**RESCUING MY ROOTS AND MY WORLD WITH SCIENCE AND TECHNOLOGY** Our state, especially our region stands out for its culture and traditions, however technology is a lagging area, we have few school, professional and work opportunities; however, through the creation of projects, workshops and conferences, EOLOTICS 7018 has come to influence more than 80% of the youth population. Since 2017 we have established ourselves as a team proud of its roots and culture, and today we are fulfilling one of our dreams by initiating alliances with the Larousse publishing house for the next publication of our book on scientific dissemination which will be printed in Spanish and Zapoteco (mother tongue of our region). During our trajectory we have been responsible for preserving our culture by learning various trades that promote the sustainability of the same team; making profits through the creation of 200 nose jícaras and 100 blanket bags. After all the effort and more than 4 generations inspired within STEAM, we know that this is only the beginning and part of new resolutions to fulfill: Encouraging teamwork, experiencing fun, trying to impact the youth of our community, region, state and country; facilitating inclusion, projecting innovation and creativity, discovering new ways to promote knowledge and always sharing the FIRST SPIRIT.;

