

https://www.firstinspires.org/sites/default/files/uploads/resource_library/frc/game-and-season-info/awards/frc-award-workbook.pdf



Business Plan



Droid Rage 3035
FRC 2025 | REEFSCAPE



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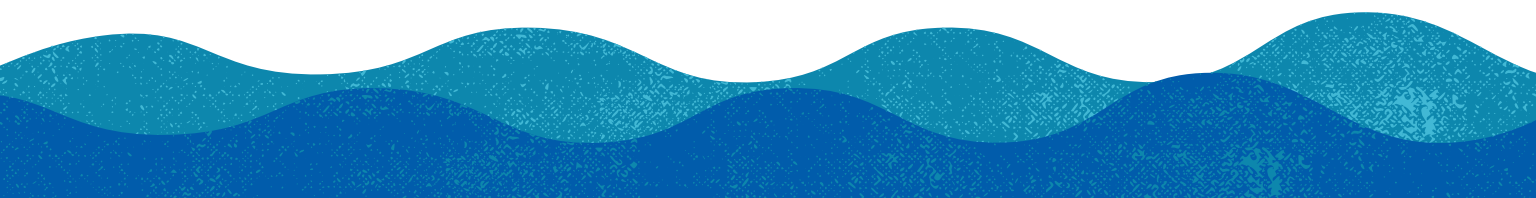
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Introduction

Located in Corpus Christi, Texas, Droid Rage continuously pursues our mission to provide exceptional opportunities for every student, regardless of background, to **explore new horizons, identify their skills,** and **develop their critical thinking**, since its establishment in 2008.

By fostering a collaborative and supportive culture that promotes learning and exploration, we aim to **Inspire the next generation of STEM** leaders and equip them with the tools they need to thrive in an ever-changing technological world.



Corpus Christi, Texas

Mission



Our Mission

Our Program's mission is to work hard, while having fun. Our goal is to motivate and raise awareness for student learning in STEAM (science, technology, engineering, art, and mathematics) that goes beyond traditional classroom learning. The program strives for its students to practice leadership skills within a competitive environment, alongside various other soft skills that would be beneficial in the workforce.



Our Vision

We envision a future where every student in the Gulf Coast community has the opportunity to explore STEAM and to become future leaders in shaping a better, innovative world. By the growing presence of FIRST programs in our community, we aim to inspire a movement of young innovators.



Our Values

We live the FIRST Core Values by embracing discovery, innovation, impact, inclusion, teamwork, and fun in everything we do. Guided by Gracious Professionalism and Cooperation, we compete with integrity and collaborate with kindness to make a difference.

Identity

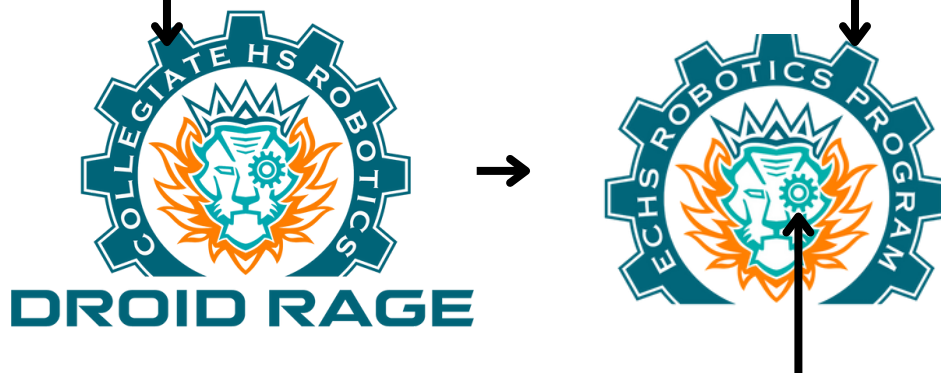
Droid Rage's identity is important for our program, **community outreach**, and social media presence. Being the only FRC team in Corpus Christi, making our identity memorable was our top priority when considering a rebrand. Our most recent rebrand was in 2021, where we updated our title and colors to better represent students in both high school and college courses while helping us stand out at competitions.

The main colors in our logo, teal and orange, were chosen to reflect both our team's identity and drive for innovation. The teal represents our focus on technology and precision, while the orange reflects our creativity and energy. Together, the colors complement each other by keeping both a cool balance and bold color.



Text from the gear changed from “Collegiate HS Robotics” to “ECHS Robotics Program” to be more inclusive of Droid Rage students that attend **high school & college**.

The gear surrounding the logo represents the foundation of STEM within our robotics program. As a symbol of engineering and innovation, the gear reflects the teams commitment to learning through building, designing, and problem-solving

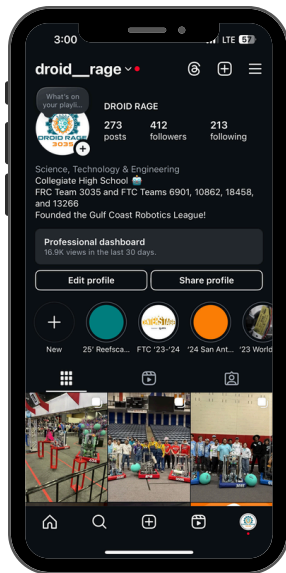


The lion represents our school mascot, with its mane being flames. At the center of our logo is our lion, symbolizing our strength, courage, and pride of Droid Rage 3035. The mane of the lion is stylized with a bold flame, reflecting the team name and passion we bring. Additionally, one of the lion's eyes is shaped like a gear, representing how we see the world through the lens of STEM. Finally, the top is a crown, which ties back to Collegiate High School's mascot—the Royals—highlighting our pride in where we come from and the legacy we aim to carry forward.

Identity

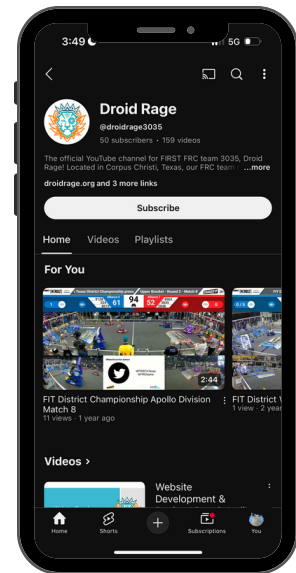
Through Droid Rage 3035 media platforms, we promote our teams outreach, culture and progress throughout the season. With both our instagram and YouTube, the team uses these platforms to document student achievements, build process, and share competition highlights. These platforms showcase our teams journey throughout the season, engaging with the wider community and inspire future STEM leaders.

400+ followers on
Instagram!

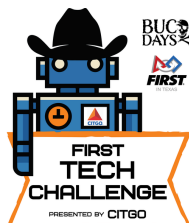
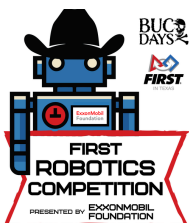


@DROID_RAGE

150+ videos on
YouTube!



Along with this, Droid Rage has played a huge role in marketing for the **Buc Days Robotics Rodeo**. Since the announcement of the addition of the FRC off-season event, Droid Rage has released a press conference, upholding the importance of **STEM in local communities**.



BUC Days in Corpus Christi, Texas is an annual community event that features parades, a rodeo, and various family-friendly activities. It also includes a partnership with FIRST Robotics, giving local students that partake in FIRST, an opportunity to participate in competitions and demonstrations, to win cash prizes. This helps promote interest in science, technology, and engineering among young people, while also adding an educational element to the event. This year is the first time in Buc Days history that FRC will be incorporated into the competition, alongside FTC and FLL.

Legacy

Our team, Droid Rage, is a **diverse** and **inclusive community** of students, mentors, and volunteers, all brought together by a shared passion for robotics, innovation, and a commitment to advancing **STEM** in our community.

We believe that everyone brings something unique to the table, and we are dedicated to fostering an inclusive and supportive environment where everyone can thrive and make meaningful contributions to our team and the wider community

Our journey began with the founding of FRC Team Droid Rage 3035 in 2008. Since then, Droid Rage has broadened its impact by establishing four FTC teams.



Currently, Droid Rage leads five teams, reflecting our strong dedication to STEM education. We attract a **diverse group** of members from all backgrounds, offering them valuable opportunities to pursue careers in **STEM**.



Legacy

2008

FRC Team 3035 was established in Collegiate High School and Harold T. Branch Academy in Corpus Christi, Texas by mentors, Sandy Riggs and Tracie Rodriguez.

2017

Team 3035 was awarded the Imagery Award, in honor of Jack Kamen, at the Alamo Regionals.

2018

Team 3035 was awarded the Safety Award at the Alamo Regionals.

2019

- Team 3035 was awarded the Autonomous Award at the San Antonio District Event.
- Team 3035 was the 2019 San Antonio District Event Winner.
- Team 3035 was awarded the Industrial Design Award, sponsored by General Motors at the Del Rio District Event.
- Team 3035 was the FIRST in Texas District Championship Winner.
- FRC 3035 member, Yedhartha Chinnasani was a Dean's List Winner.
- Team 3035 advanced to FIRST World Championships

2022

- Team 3035 was the FIRST in Texas District Championship, Mercury Division Finalist.

2023

- Team 3035 won the Innovation in Control Award at the Channelview District Event.
- Team 3035 was the Channelview District Event Finalist.
- Team 3035 won the Innovation in Control Award at the First in Texas District Championship.
- Team 3035 advanced to FIRST World Championships.

2024

- Team 3035 won the Sustainability Award at the San Antonio & Space City District Event.

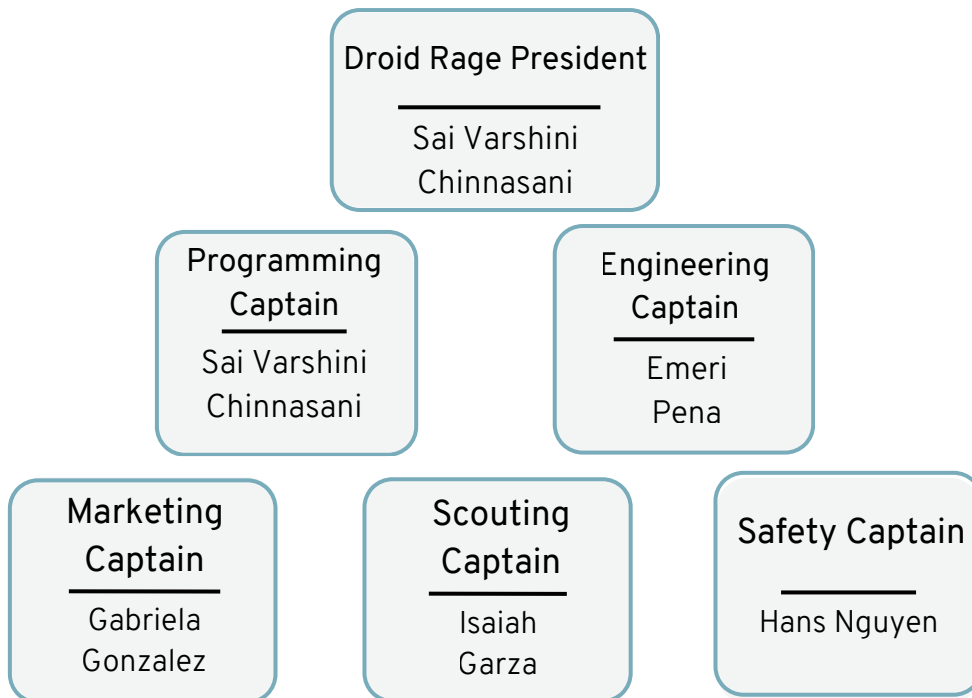
2025

- Team 3035 won the Industrial Design Award at the Amarillo District Event.
- Team 3035 was the FIRST in Texas District Championships Mercury Division Finalist
- Team 3035 advanced to FIRST World Championships



Legacy

The "Passing of the Crown" Ceremony has become a cherished tradition for Droid Rage, introduced last year as a meaningful way to **honor** and **transition** leadership within the **team**. Held at the end of the **FIRST** Robotics season, the event sees **graduating leaders** from roles in marketing, media, scouting, software, safety, and the presidency formally crown the new captains.



This event is deeply meaningful to our team, marking both a farewell and a **new beginning**. For our mentors and senior members, it provides a chance to reflect on their journey in robotics, their **growth as leaders**, and their contributions to advancing **STEM initiatives**. For the incoming leaders, receiving this role is a recognition of the trust placed in them and the responsibility to uphold the team's values of innovation, gracious professionalism, and coopertition.

Legacy

Droid Rage has built a **strong legacy** of **FIRST** participation, with many of our team members having **family and friends** who were part of the **FIRST community**. This tradition inspires younger generations, including our members, to continue the spirit of innovation and robotics. These **connections** continue to foster a deep passion for STEM within our team, reinforcing our commitment to **FIRST values** and ensuring that our legacy of robotics continues to thrive.

Connections in FIRST

Brian Torres FTC 4902	Christian Colunga FRC 3035/FTC 13266	Javier Colunga FRC 3035/FTC 6901/13266	Eduardo Ramirez FTC 13266
Andrea Gonzalez FRC 3035/FTC 6901	Maya Mollik FRC 3035/FTC 10862	Emma Mollik FTC 13266	Christopher Ramirez FRC 3035/FTC 13266
Gabriella Gonzalez FRC 3035/FTC 13266	Sai Yedhartha FRC 3035/FTC 10862	Sai V Chinnasani FRC 3035/FTC 10862	Jose "Tony" Ramirez FRC 3035/FTC 10862
Citlali Lopez FRC 3035/FTC 6901	Sandy Riggs Team Coordinator	Lily Riggs FRC 3035	Emet Garcia FRC 3035/FTC 18458
Cecilia Lopez FRC 3035/FTC 13266	Justin Schwerdtfeger FRC 3035/FTC 13266	Joshua Schwerdtfeger FRC 3035/FTC 13266	Ariel Garcia FTC 18458

By blending the contributions of our members with the **involvement** of parents and mentors, our program gains **recognition** across **entire families**. This participation inspires the families of our members to continue the tradition, not only within Droid Rage but also in the broader realms of **FIRST** and **STEM innovation**.

Team Structure

Mentors

STEM professionals serve as mentors for our team, offering valuable guidance and support in engineering, software development, and marketing.

3035 President

Our robotics club president oversees all FRC sub-teams, ensuring seamless collaboration and adherence to deadlines.

Head of Software

The Head of Software is responsible for optimizing the code that controls the robot's movements, sensors, and autonomous functions.

Head of Engineering

The Head of Engineering is responsible for overseeing the robot's design, incorporating input from team members to develop a build that best aligns with the team's goals.

Head of Marketing

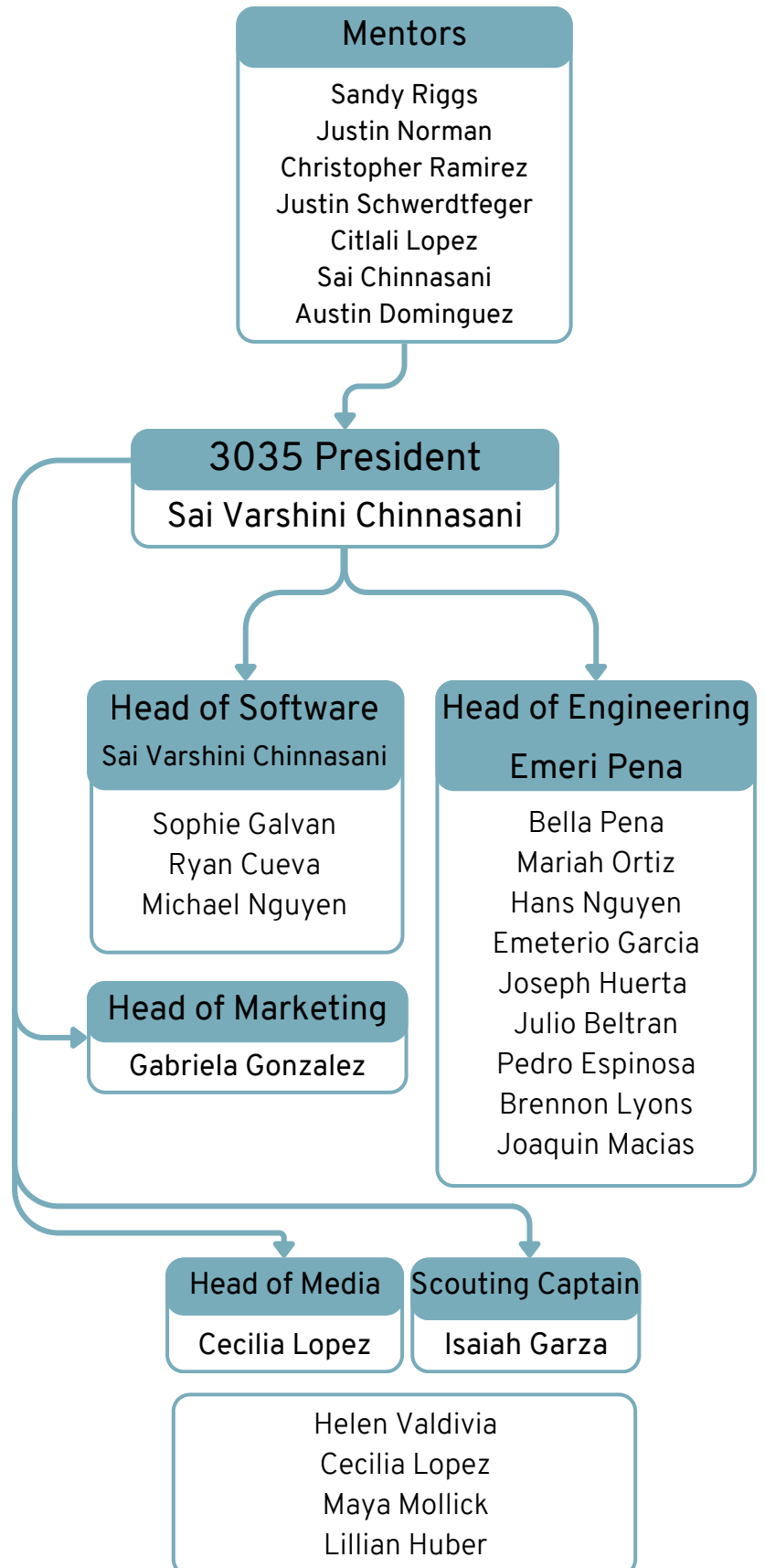
The Head of Marketing is responsible for developing marketing materials, designing an effective pit setup, and overseeing the media and scouting teams.

Head of Media

The Head of Media oversees photography, filmmaking, and social media management, with media team members contributing to the creative process.

Scouting Captain

Scouting Captain oversees scouting operations, assigns tasks to scouting team members, analyzes match and pit scouting data to support strategic decision-making.



Mentors and Alumni

Droid Rage is a unique robotics team, consisting of two Early College High Schools, where 100% of our seniors graduate. Additionally, 50% of seniors at Collegiate HS graduate with a 2-year Associates Degree from Del Mar College, and 50% of seniors at Harold T. Branch Academy earn Industry Based Certifications to join the workforce upon graduation.



Our alumni have gone on to attend prestigious universities across Texas, continuing their journeys in fields such as engineering, programming, marketing, business, art, and more.

Numerous alumni have also pursued careers in STEM, securing engineering roles at top companies like SpaceX, Tesla, Mott McDonald, Steel Dynamics, and FIRST.

Some alumni have chosen to stay on as mentors, offering their knowledge, experience, and expertise. Their guidance has not only helped us build competitive robots but has also taught us important life skills such as teamwork, communication, and problem-solving.

We deeply appreciate their dedication to our team and recognize that Droid Rage would not be where it is today without the invaluable support and mentorship they provide.

Mentors and Alumni

As a team, Droid Rage 3035 takes great pride in being **guided** by committed **mentors and alumni** who return to **share their expertise** in programming, engineering, CAD, and marketing. Their support has been instrumental in helping team members refine their skills, access valuable resources, and tackle challenges, ensuring our team's ongoing growth. Through their **mentorship**, Droid Rage has cultivated a culture of leadership and innovation.

Sandy Riggs



Sandy Riggs is the backbone of Droid Rage itself, being the **founder of the team** and catalyst for our long-term success. As a coach and sponsor, she has **provided guidance and resources** in keeping the team running. Her organization and financial management have allowed the team to grow sustainably, ensuring opportunities for future members.

Yedhartha Sai Chinnasani

Sai Chinnasani has been one of Droid Rage's most dedicated **mentors**, providing his support year after year. Through his expertise in CAD and programming has **helped the team refine our designs** and improve efficiency. Along with this, Sai has introduced the **systems engineering process** to our team, allowing us to build our robot in an efficient way.



Christopher Ramirez



Christopher Ramirez is a **intuitive alumni**, having over four years of experience in *FIRST* and engineering in general. Chris has **aided us** by being a drive coach, practicing with the drivers, lead us through the systems engineering process, and **helped us troubleshoot any issues** that had suddenly arisen.

Mentors and Alumni

Citlali Lopez



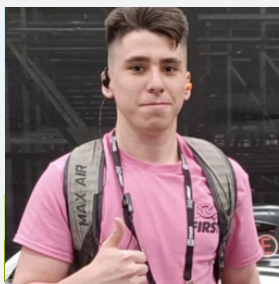
Citlali's **mentorship** has played a crucial role in shaping Droid Rage 3035's professional image. Her input to our marketing team has **helped refine our binder and portfolios**, making our submissions more polished and effective. Additionally, her **guidance** in networking has expanded our connections with sponsors, further strengthening the team's presence and relationships within the community.

Justin Schwerdtfeger

Justin Schwerdtfeger's **mentorship and guidance** have been invaluable to the Droid Rage programmers, significantly improving our autonomous programming. His input has enhanced the efficiency and reliability of our code, while his feedback has **helped refine and strengthen** the team's **programming skills**. This has resulted in more consistent and effective robot performance during competitions.



Justin Norman



Justin Norman is a **gracious mentor**, proving his commitment as a mentor by hosting a workshop to create websites, has provided feedback with anything related towards software, and **finding generous sponsors** to aid in our journey as a team.

Austin Dominguez

Austin Dominguez has been an **alumni** for four years, and played a key role in **streamlining the CAD process** for teams in both First Tech Challenge and First Robotics Competition by establishing a systematic, iterative review and feedback loop. His management of the CAD process was instrumental in achieving efficient, innovative, and competition-ready robot designs, demonstrating a blend of technical expertise and effective team leadership.



Sub-Teams

We believe that both students and mentors share responsibility for the team's success, and our structure reflects this philosophy. Each sub-team is led by both a student lead and a mentor lead. The mentor lead provides guidance, teaches new skills, helps solve problems, develops strategies, and ensures that a wide range of ideas are considered in team organization and decision-making.

Engineering

Handles designing and building the robot in accordance with the game challenge criteria & constraints. They ensure the robot's structure, functionality, and performance align with competition requirements, enabling it to complete necessary tasks during matches.



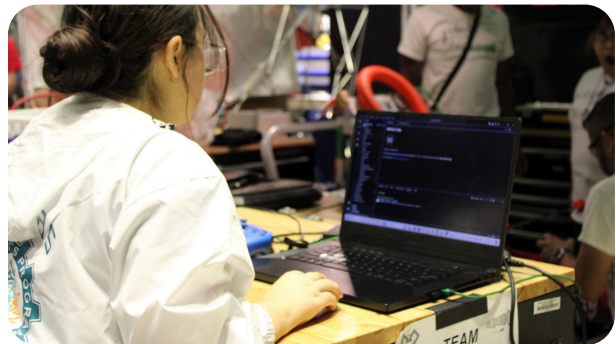
Marketing

Tasked with securing and engaging potential sponsors while actively promoting STEM education across the community. They organize events, activities to inspire, and educate students about robotics and engineering, fostering greater awareness and involvement in STEM.



Software

In charge with programming the robot to perform the necessary tasks during game matches. They also fine-tune autonomous functions to ensure the robot can operate independently and efficiently during the competition.



Outreach Analytics

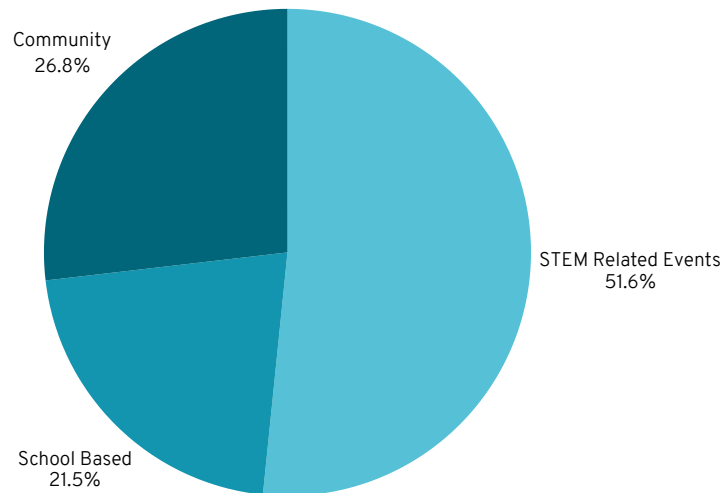
Being apart of the Early College High Schools, Collegiate and Harold T. Branch, our team members are expected to work for their volunteer hours in order to graduate. These volunteering events can range from school-based events or community service, to STEAM events that members of Droid Rage 3035 give their time and efforts to.

Senior members average
225+ hours

Each year, our senior team members average over 200 volunteer and community service hours accumulated throughout their four years of high school.

Droid Rage 3035 has made a strong impact through a balanced commitment to Droid Rage 3035 has shown a strong commitment to STEM, school, and community involvement. Our team has volunteered over 400+ hours at STEM-related events, inspiring younger students and promoting technology.

We also have contributed 167+ hours to school-based activities like tutoring and event support. With 208+ hours of community service, members gave back through volunteering at local events and helping those in need. These efforts reflect our dedication to making a meaningful impact both in and out of robotics.



FIRST Community Outreach

Ingleside Team Meetup



This year, 3035 **assisted** Ingleside's team in getting their claw and **robot operational** just in time for the competition. After encountering difficulties with programming, they reached out for help. We reviewed their code, **refined** the motor controls to improve the robot's movement, and fine-tuned the joystick input. With these adjustments, the claw functioned smoothly, enabling the robot to successfully complete its tasks at the League Meet.

VMHS Team Meetup

3035 **assisted** VMHS with robot design, wiring, and programming in Android Studio to get their robot connected and operational. We **guided** them through troubleshooting and optimizing their system, ensuring everything was properly set up for smooth performance during the competition. Our contributions helped **FTC 17796** win the **Judges' Award** at regionals.



West Oso Team Meetup



At our 3035 Workshop, the nearby FTC Team West Oso came for **assistance**. We helped them with robot building, design, and programming, working closely with them to troubleshoot and improve their robot. We provided **guidance** to ensure they stayed on track for success. It was a valuable opportunity to **collaborate** and **support** their progress.

FIRST Community Outreach

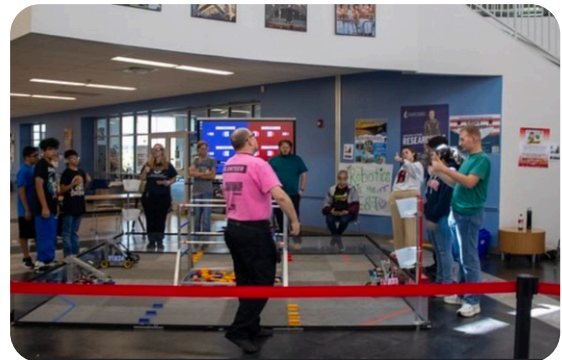
Droid Rage Mentorship



This year, Droid Rage provided mentorship to our four FTC teams—13266, 10862, 18458, and 6901—for the "Into the Deep" season. Throughout the season, we shared our expertise in CAD, engineering, marketing, and programming, helping these teams **excel** in their respective fields while encouraging them to pass on their knowledge to **future members**.

FTC League Meets

Throughout the FTC 2024-2025 season, members of Droid Rage attended every league event to provide **mentorship** to our four FTC teams. Additionally, team members **dedicated** their **time** to support field resetting and **mentored** competing teams, sharing their expertise to help others succeed.



Safety Raffle



As members of the **FIRST** community, we believe that **safety** is a **top priority**. Each year, our team organizes a safety raffle to encourage teams to prioritize safety in a fun and engaging way during events. By recognizing those who demonstrate **commitment** to safety, we aim to inspire teams to foster a safe and secure environment for all.

Community Outreach

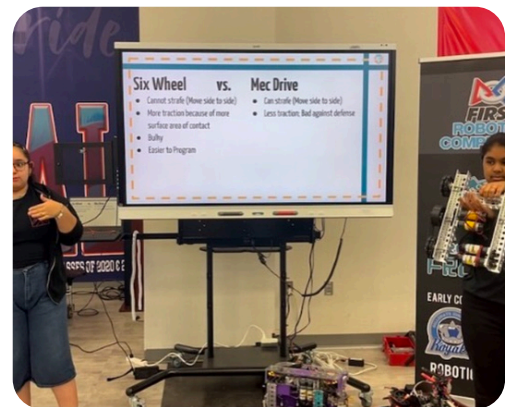
Code-It Camp



The Code-It Camp is held annually, where our team supports over 25 middle school students from across the county by **teaching** STEM, basic coding, and providing an introduction to **FIRST**. We take pride in being a helping hand for the next generation of STEM enthusiasts.

Valero STEM Day by the Bay

Droid Rage actively **promotes interest** in STEM within the community. This year, our members volunteered at the Valero STEM Day by the Bay, where children had the opportunity to participate in fun, summer-themed activities that were still rooted in everyday STEM-based experiments.



CTE Pathway Expo



Our team was invited to participate in CCISD's CTE Pathway Expo, where we had the opportunity to share our passion for STEM with students. We introduced them to **FIRST** Robotics, hoping to inspire them to one day join FTC or FRC leagues and become part of the **FIRST** community.

Community Outreach

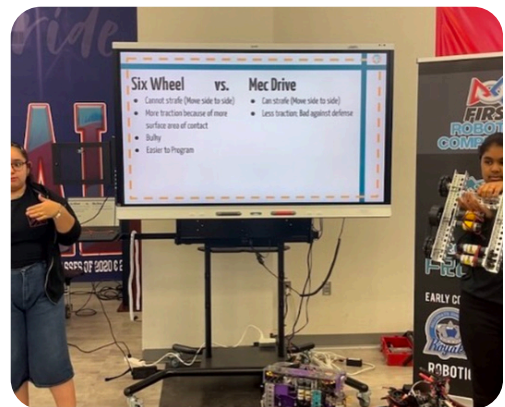
Viking Fest



Throughout the season, Droid Rage had the opportunity to spread our love for STEM at the Viking Fall Fest. Team members volunteered, offering face painting and henna to children and families. We also gave students the chance to practice and experience controlling our drivetrain, **introducing** them to the world of robotics in a fun and engaging way.

Presentations at Kick Off

Year round, Droid Rage hosted workshops at the FTC Kickoff to help jumpstart Gulf Coast teams' seasons. We covered engineering, programming, building, and marketing—**providing assistance** with robot design, coding strategies, optimizing movement, and building team brands. These sessions equipped teams with the skills and confidence they needed to hit the ground running and succeed in the upcoming season.



Tech2Learn



Every year, Droid Rage is invited to participate in the annual Tech 2 Learn event hosted by the Corpus Christi Independent School District, where we **showcase** our robotics program on behalf of Collegiate High School. During the event, students from various schools have the opportunity to operate our robots, learn more about **FIRST** Robotics, and explore our FTC and FRC teams.

Recruitment

Droid Rage 3035 is dedicated to building a **diverse**, **inclusive**, and **innovative** team by actively recruiting students from all backgrounds. We value unique perspectives that **enhance collaboration** and **creativity**. Our program focuses on consistent recruitment and sustainable growth through a variety of strategies.



Our Strategies:

- **Annual Robotics Mixer:** Students meet the teams, explore *FIRST* values, and learn about our achievements.
- **Community Engagement:** We volunteer at STEM Nights, local middle school teams, and participate in career expos.
- **Induction Ceremony:** We welcome new recruits and recognize family support, fostering a connected team culture.



We seek students who are eager to learn, uphold Gracious Professionalism, and contribute to the team's goals. By fostering a supportive and welcoming environment while highlighting our successes, we ensure a continuous flow of passionate recruits who help sustain and grow our program.

Recruitment

This year, Team 3035 recognized that **recruitment** extends beyond just students—it also includes parents and sponsors who play a crucial role in supporting the team. For our team-wide meeting and showcase, we invited both current and potential parents and sponsors to join us, fostering a sense of community and involvement.



Outcomes:

Stronger Team Support – Engaging parents and sponsors builds a robust support system, providing students with the resources and encouragement they need to succeed.

Greater Community Engagement – Involving parents and sponsors nurtures a sense of community and shared investment in the team's success.

Increased Funding and Resources – Sponsors and parents offer valuable financial support, equipment, and networking with local business and industry opportunities that enhance the team's capabilities.



However, we didn't stop there. We also invited local FTC teams to join us at our robot showcase. By extending the invitation, we aimed to broaden their **horizons** and showcase what ECHS Robotics Program and FRC have to offer.

Sponsorships

Droid Rage reached out to **local businesses** for support during our game season journey, and we are grateful for their generous contributions. **Dream Team Realtors** sponsored us by donating essential tools, which played a key role in assembling our robot, along with a **\$1200** worth of additional tools. **Grecia's Party Room** provided space for us to set up a practice field, while **White Cap** supplied wood and assisted with the construction of bumpers and the practice field for this season's game.

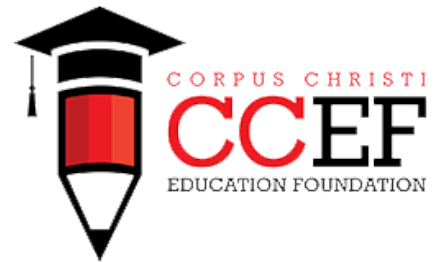
Shirley & Sandy Team, Dream Team Realtors



The Shirley and Sandy Team of Dream Team Realtors has been a **consistent and generous sponsor** of Droid Rage 3035. We deeply appreciate all the support and assistance they provide to our team.

Corpus Christi Education Foundation

The Corpus Christi Education Foundation **provided funds** for Droid Rage 3035 this season, Reef Scape. Their contributions were essential in supporting our team and helping to build our robot for this year's competition.



White Cap



White Cap played a vital role in supporting this season's game by **donating** sheets of plywood and tools to our team. Their contributions helped us build equipment, storage solutions, and structures that enhanced our team's performance.

CITGO

CITGO made a generous contribution to this season's FRC team by **contributing funds** for our team's season registration. Their financial support enabled us to register for the 2025 season. CITGO's **commitment** to fostering STEM communities plays a key role in helping us prepare for each season.



Sponsorships

Ballyhoo Plastic



Ballyhoo Plastics, located in Corpus Christi, Texas, is the leading plastic resin supplier in the United States. Their mission is to lead the industry in sustainable plastic supply by offering **high-quality materials** while advocating for closed-loop **recycling** programs.

A&B plastics

A&B Plastics is a polycarbonate distributor based in Corpus Christi. Their **donation of high-grade polycarbonate** contributed greatly to the quality of our robot, and we appreciate the time and resources they've invested in our success.



NI Emerson



NI Emerson played a key role in helping us **establish our presence in the STEM community** by providing a sponsorship. We extend our sincere thanks to them for their support. As a tech and software company, they knew exactly how to assist us, and their contribution has been invaluable.

Grecia's Party Room

Throughout the season, Grecia's Party Room **generously provided Droid Rage access to their hall**. This space was used for working on the robot, driver practice, and team meetings during weekends and breaks, helping our team stay productive and focused.



Sustainability

Team 3035 is deeply committed to **sustainability**, reducing waste, and repurposing materials to ensure the long-term sustainability of the team while **minimizing our environmental impact**. Through our efforts, we strive to support not only our sustainability, but also other teams in the **local Gulf Coast area**.

Our team is grateful for our sponsors & the materials they supply. **A&B Plastics** donates polycarbonate that is no longer suitable for their uses to our team. **White Cap** provides our team with **recycled** lumber. These materials are not only used for our robot, but as well as **learning opportunities**. Members use the polycarbonate & lumber to **enhance their skills** with bandsaws, drills and CNC routers.

What is it's impact?

- Lowers the amount of waste from our team & local companies from going to the landfill
- Cost of materials decreases, which increases our budget for other projects
- Ensures that everything we use is either repurposed or recycled



When Droid Rage 3035 has material that can no longer be repurposed, we ensure that it all gets recycled properly. We do this by **searching for local recycling centers**. The team decided to send our polycarbonate and 3D printed parts to **Ballyhoo Plastics** since they are able to process our complex polymers & **ensure it is recycled correctly**.

Repurposing for education goals:

Future Goals

- Create a flyer of recycling centers we use. We plan on sending these to local teams so they too can follow **sustainable practices**
- Collect aluminum cans from both of our schools to create funding for parts/electronics.



Sustainability

Being the only FRC team in Corpus Christi, it is crucial that we extend our **FIRST** relations with local FTC teams. By following **sustainable practices**, we give new purpose to resources that may no longer meet their original use but are valuable to **robotics education and innovation**.

Repurposing for education

FRC parts that are no longer fit for the robot aren't put to waste, they instead are:

- Repurposed for educational use, allowing team members to experiment with mechanical and electrical systems
- Donated to local middle schools, providing their robotics teams with valuable materials for learning

When FRC parts are not up to competitive standards, they are passed down to our **STAR** workshop program to educate our incoming members. The **STAR** program hosts both in-person, as well as online workshops to teach members an **introduction to engineering, programming, and marketing**. With our old parts, members are able to conduct hands-on experiments to further their knowledge with STEM. Using old parts helps students develop their skills without the concern of damaging assets.

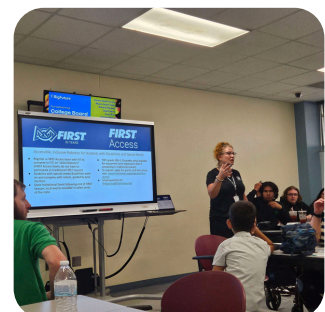


Supporting our community

After assessing parts that are viable for FTC use, they are donated to **local FTC middle school teams** in the Gulf Coast area for further use. This increases the life of parts, and **opens an opportunity for teams** to experiment with parts they otherwise wouldn't been able to acquire.



By giving old materials a second chance, we reduce waste, **support education**, and promote **sustainability**, ensuring that knowledge and resources continue to **benefit the next generation of innovators**.



Promoting Safety FIRST

Safety is a core value within the **FIRST** Robotics program, prioritizing proactive measures, education, and ongoing improvement to safeguard the well-being of all participants. In alignment with this commitment, Team Droid Rage 3035 has taken steps to further promote safety both in the lab and at competitions.



Safety in Class

Droid Rage has made a constant effort to promote safety in and out the classroom

How we stay safe

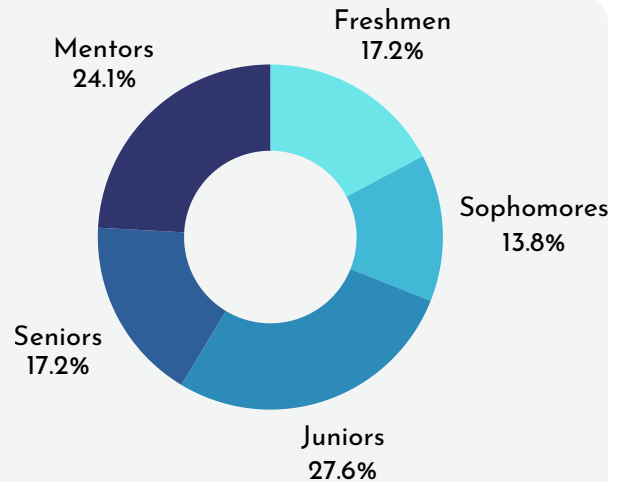
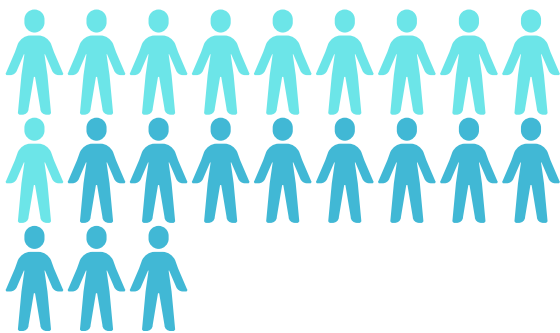
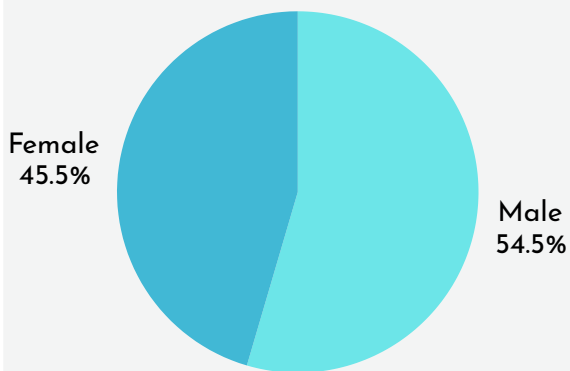
- **Establishing Clear Safety Guidelines:** At the start of the course, we set clear safety guidelines covering essential practices like wearing safety goggles, proper attire, and safe handling of equipment.
- **Conducting Safety Training:** Before working with robotics equipment, we hold training sessions to teach students how to safely operate machinery, identify hazards, and respond to emergencies.
- **Regular Equipment Inspections:** We perform regular checks on all robotics equipment to ensure everything is in optimal working condition.
- **Emergency Procedures Education:** Students are educated on emergency procedures to ensure they know how to act in critical situations.
- **Safety Incident Reports:** We use the Droid Rage general form for reporting any incidents, ensuring that we maintain a safe and accountable workspace.

Demographics

21 Students in Droid Rage 3035

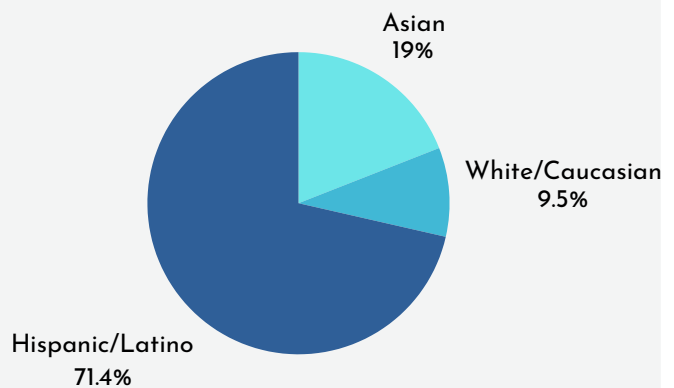
7 out of 21 students
are rookie members

45% of students are
new to *FIRST*
robotics



45.5% identify as
female

54.5% identify as
male



SWOT Analysis

Strengths

- **Team Member's Commitment**
 - Our team members have dedicated a significant amount of their time, often staying late every day, using their breaks to contribute to the progress of the robot. Their commitment and hard work are key to our success.
- **Time Management and Organization Skills**
 - Despite our small size, we divide tasks effectively, ensuring timely completion and progress toward our goals.

Weaknesses

- **Mentor participation**
 - The team faces challenges with mentor availability, as most alumni can't commit their time. However, we adapt by relying on our existing members, building a strong internal support network that helps us succeed despite the mentor shortage.
- **Lack of practice space**
 - Without space for hands-on practice, diagnosing issues is challenging. To overcome this, we manage our time effectively during competitions.

Opportunities

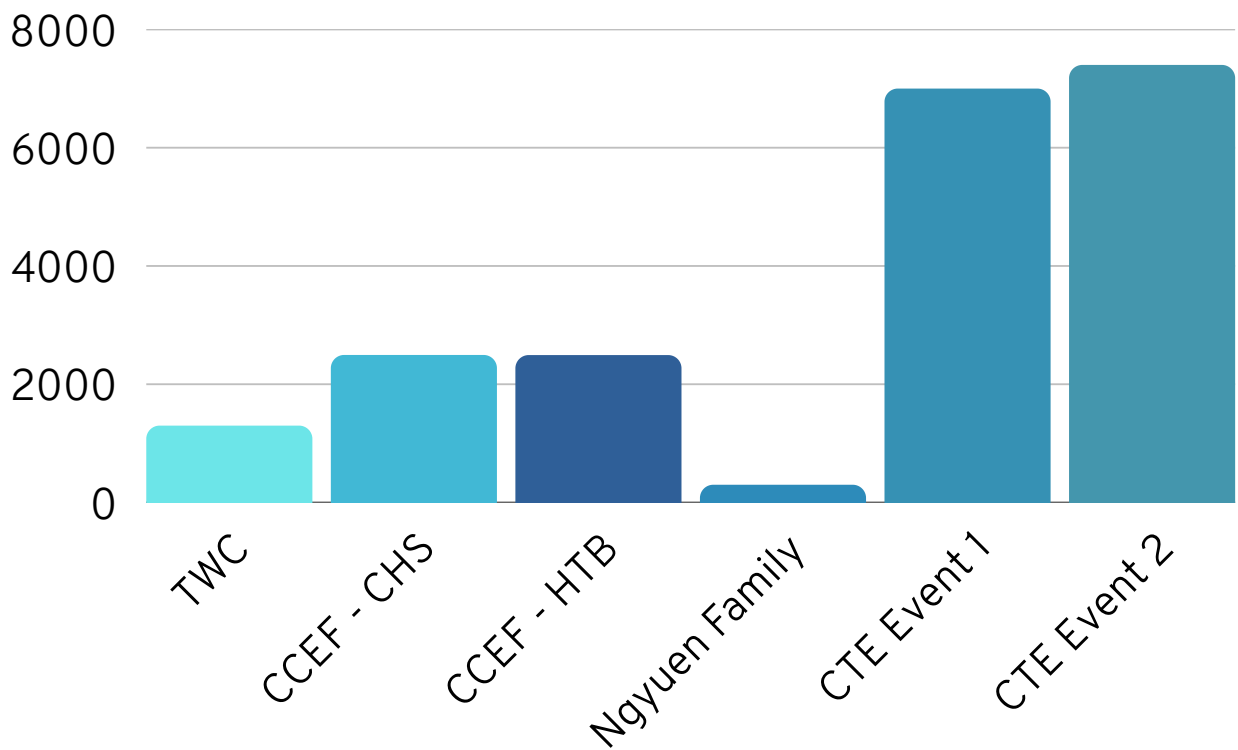
- **Enhanced Capabilities with Access to New Machinery and Building Materials**
 - Thanks to our sponsors, our lab is equipped with new machinery, including CNC routers and 3D printers, enabling us to create cost-effective iterations.
- **New Team Member Recruits**
 - This year, we recruited 8 freshmen, allowing us to teach based on roles and ensure the team's sustainability as seniors graduate.

Challenges

- **Challenges Due to Lack of Dedicated Build and Practice Space**
 - Due to the lack of proper practice space, our ability to fine-tune the robot's maneuvers is limited. Without this space, we're struggling to translate our innovative design and strategic plans into effective real-world performance, which could hinder our competitive edge and make it difficult to refine the robot's capabilities.

Team Budget

Droid Rage 3035 Sponsors/Donations/Grants



Droid Rage 3035 Expenditures

