



DROID RAGE

2025-2026

Business Plan

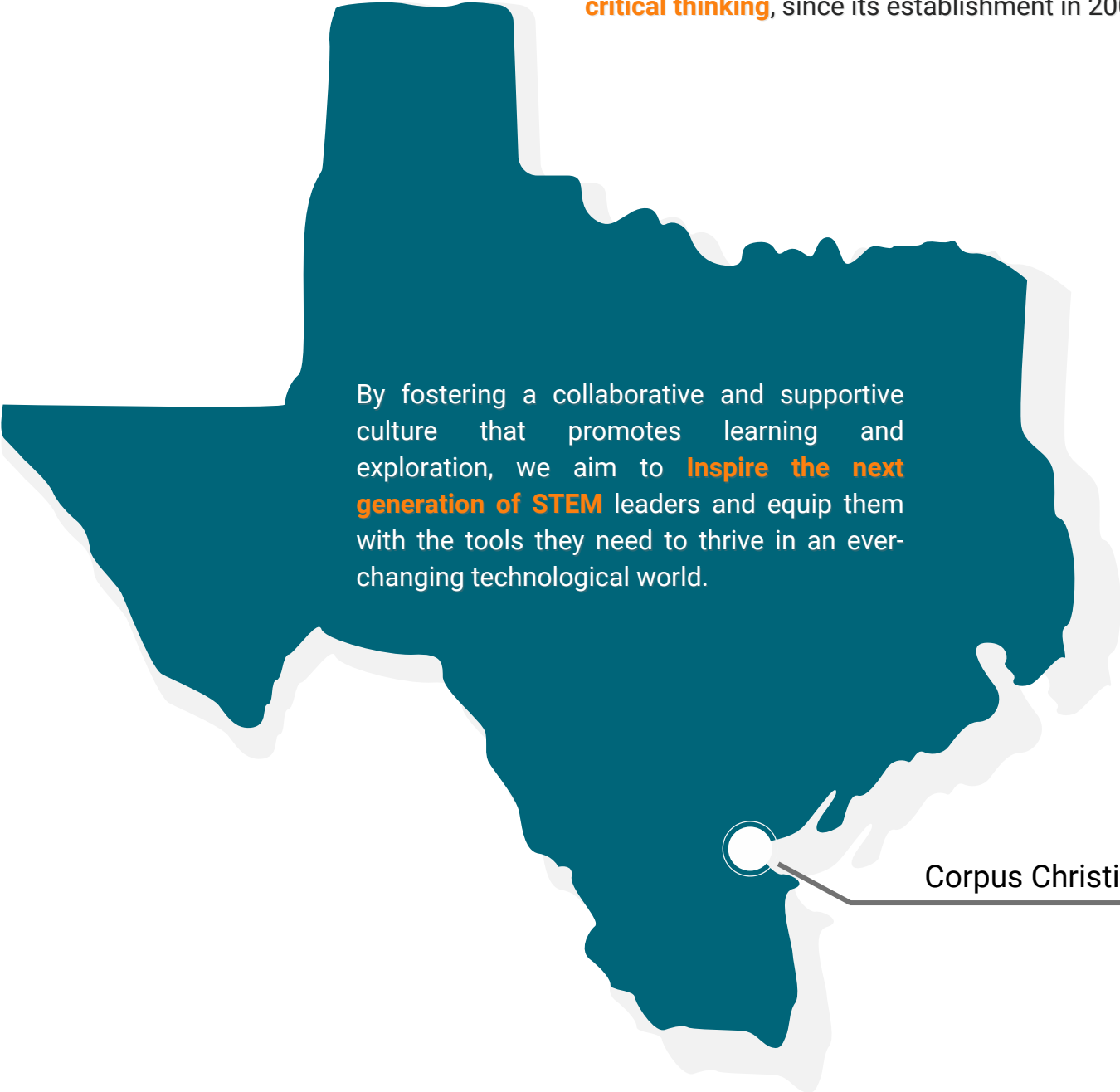


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Introduction

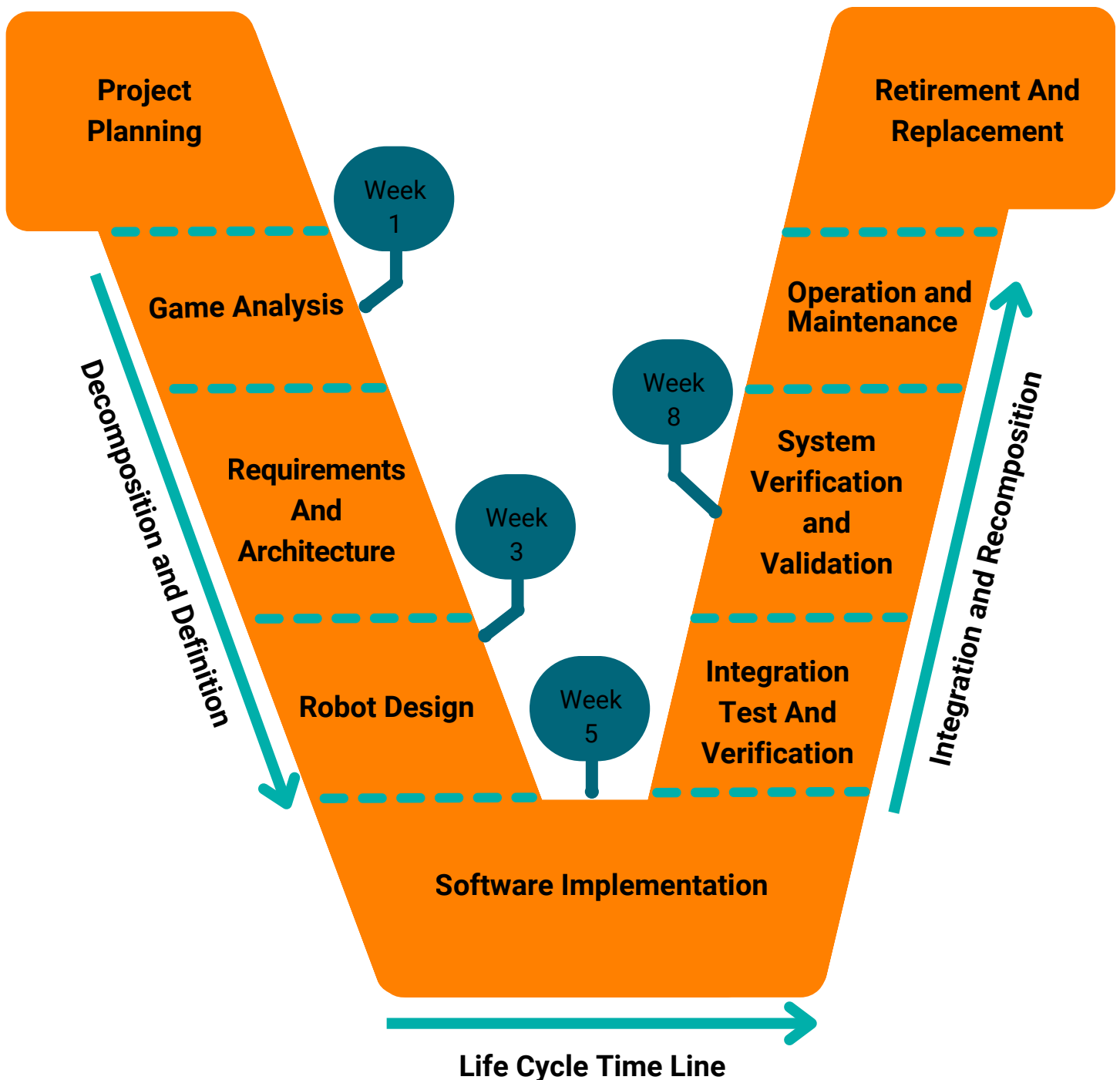
Located in Corpus Christi, Texas, Droid Rage continuously pursues our mission to provide exceptional opportunities for every student, regardless of background, to **explore new horizons, identify their skills,** and **develop their critical thinking**, since its establishment in 2008.



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

Systems of Engineering



The **Systems Engineering Process**. The process is a structured and interdisciplinary approach focusing on following a series of steps emphasizing on designing, developing, and managing complex systems while considering the entire **life cycle** of **robot** from **concept to retirement**.

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.



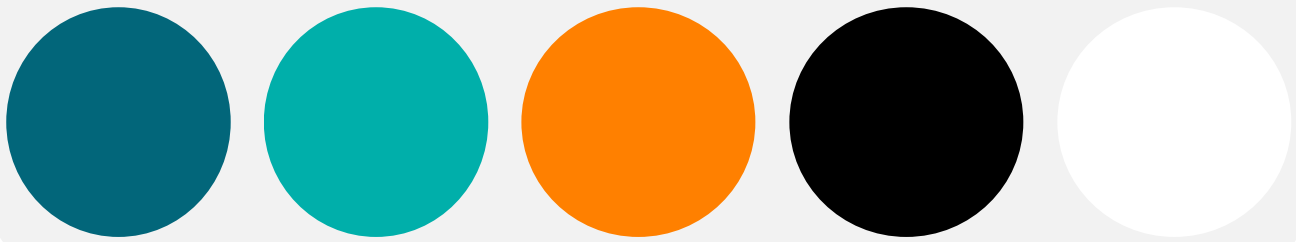
Our Values

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

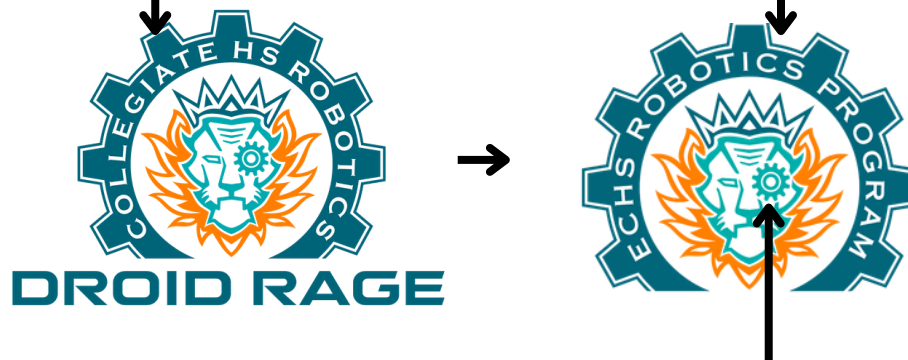
Droid Rage's identity is important for our program, **community outreach**, and social media presence. Being the only FRC team in Corpus Christi, making our identity memorable was our top priority when considering a rebrand. Our most recent rebrand was in 2021, where we updated our title and colors to 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.

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

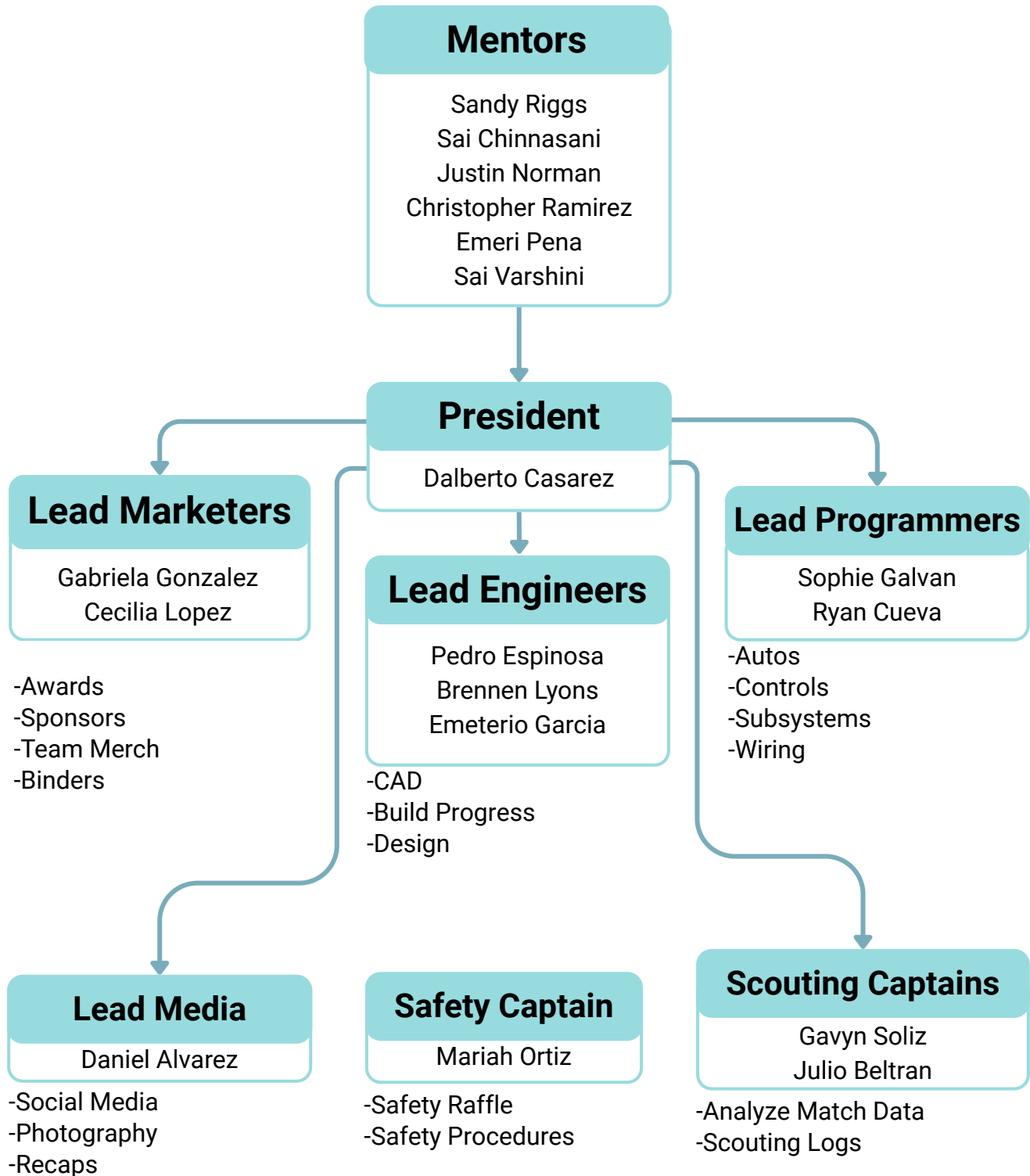
- Team 3035 won the Industrial Design Award at the Amarillo District Event.
- Team 3035 was the FIRST in Texas District Championships Mercury Division Finalist
- Team 3035 advanced to FIRST World Championships



About us

1.5 Team Structure

Being a student-led program, every member has an important role to fulfill. Team Leads create expectations, assign tasks, and train new members. Mentors and Coaches use their industry expertise to provide guidance, critique projects, and set deadlines.



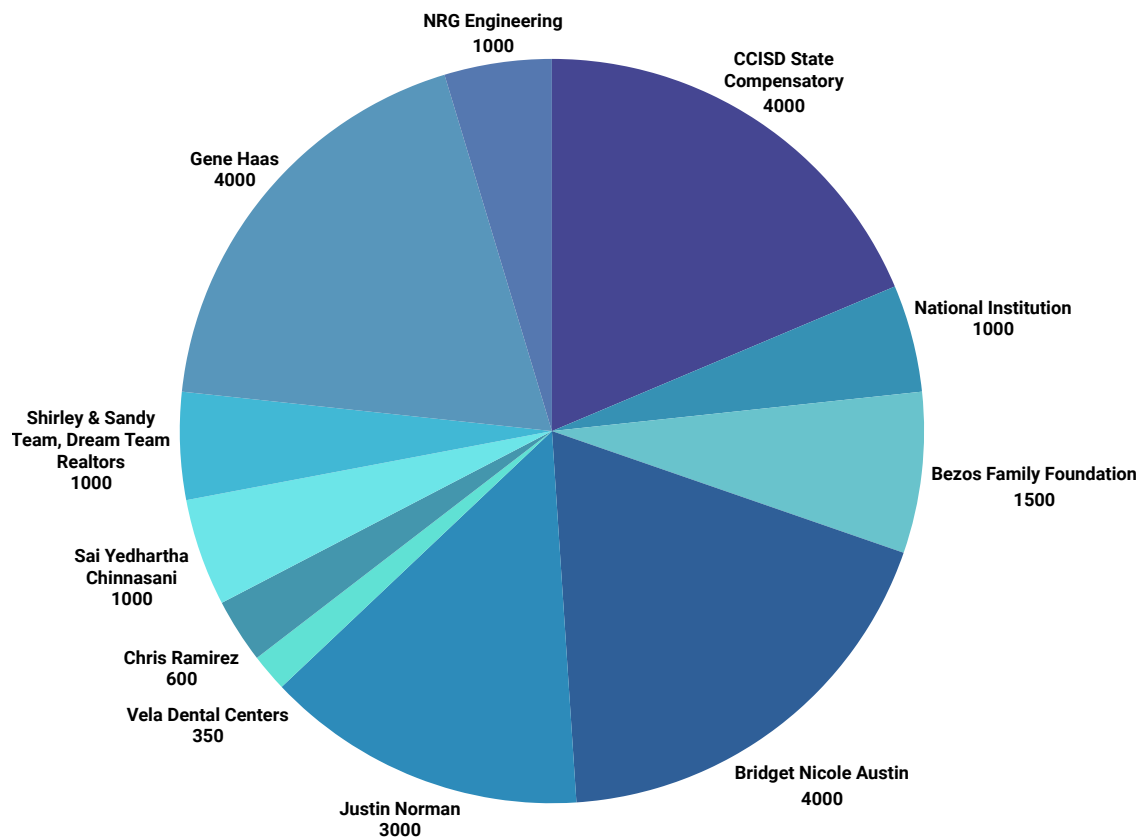
About us

1.6 Team Budget

Droid Rage funding relies on sponsors, grants & fundraisers. When dealing with funds, we must assess registration & competition fees, as well as any items that our sub-teams may need. In order to meet these needs, Droid Rage has increased its fundraising, which helps us interact with our community and network with possible sponsors.

Vendor	FIRST	AndyMark	CTR	WCP
Price	\$6,300.00	\$1,510.72	\$3,949.71	\$741.49
Use	Registration	Wheels Bumper Fabric Batteries	Motors PDP CANcoder	Rivets Battery Wire

1.7 Droid Rage 3035 Sponsors/Donations/Grants



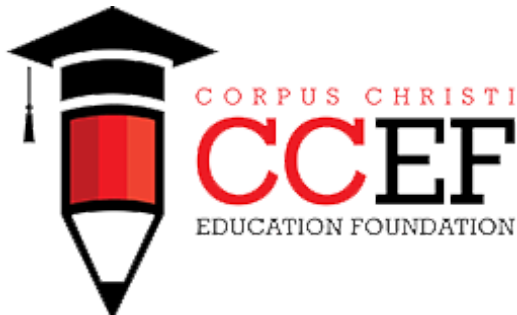
Sponsors

1.7 Sponsors

Droid Rage 3035 is supported by a diverse network of sponsors whose contributions make our season possible through funding, resources, and community investment. This year, we received major support from CCISD State Compensatory and Gene Haas, along with significant contributions from Bridget Nicole Austin, Justin Norman, and the Bezos Family Foundation. Additional support from National Instruments, NRG Engineering, Sai Yedhartha Chinnasani, and Shirley & Sandy Team, Dream Team Realtors helped sustain our operations, while Vela Dental Centers and Chris Ramirez provided valuable supplementary funding. Together, these sponsors enable our team to design, build, and compete at a high level.



Bezos Family
Foundation



VELA DENTAL CENTER

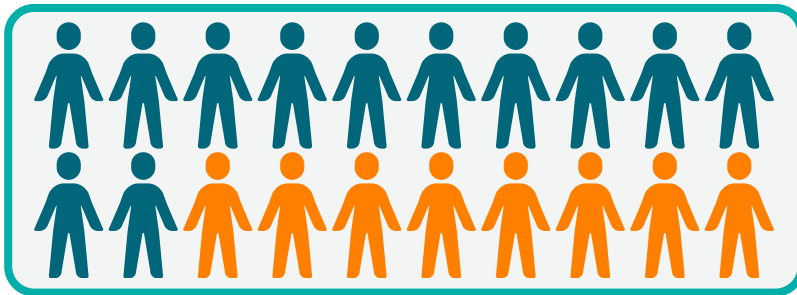


Demographics

1.8 Demographics

Team 3035 is made up of 32 dedicated students represented from both Collegiate High School and Harold T. Branch Academy.

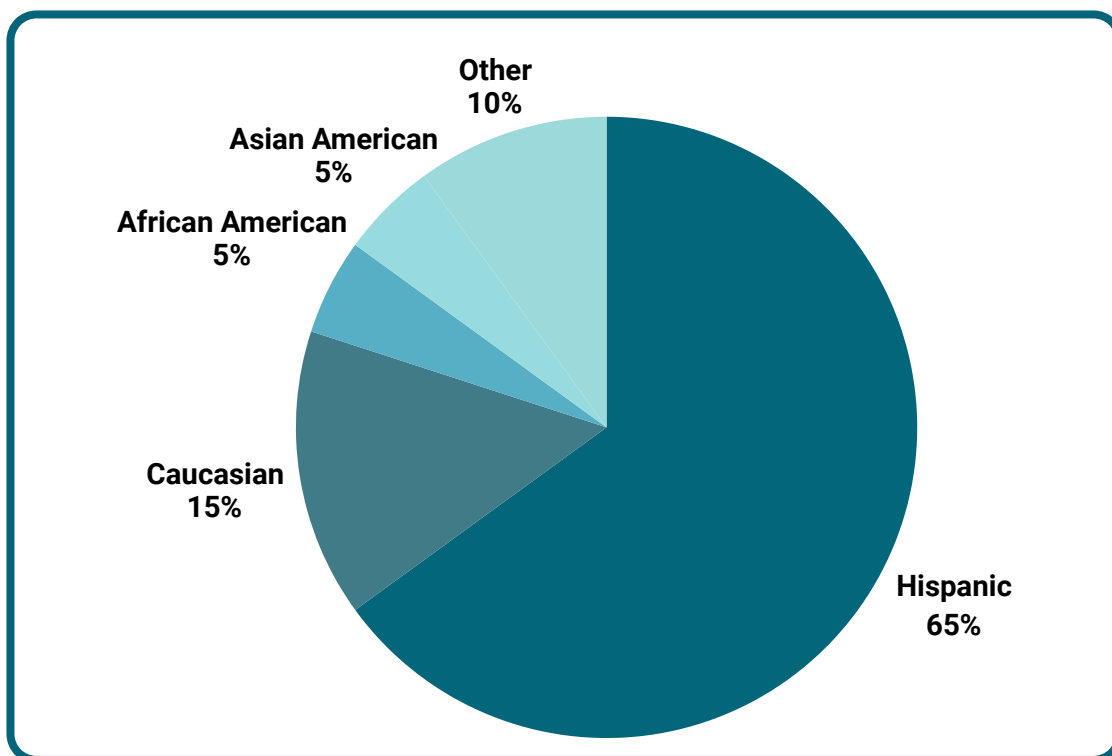
Gender Distribution



70% of members identify as male and 30% identify as female.

Our team represents a diverse group of students across all grade levels from freshmen to seniors, creating a balance of new ideas and experienced leadership. This mix of students allows for mentorship within the team where returning members help guide rookies through design, build, and competition process.

Team Ethnicity/Race



Mentors and Alumni

1.9 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

1.9 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. 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 engineering, it has helped the team **refine our designs**, improve efficiency, and 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 the team 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

1.9 Mentors and Alumni

Sai Varshini Chinnasani



Sai has been a valuable mentor to Droid Rage. She has provided guidance in **programming and coding**, sharing her knowledge and expertise to our programming team. In addition, she has helped our marketing sub team with **branding and portfolios**.

Emeri Pena

Emeri Pena has been an impactful mentor through his help and advice for **engineering and designing**. Through his expertise in his CAD skills, he has given members valuable input throughout the design process of NOMAD.



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 our robot's software, and **finding generous sponsors** to aid in our journey as a team.

Hans Nguyen

Hans Nguyen has contributed to team 3035 Droid Rage by providing his assistance **with engineering design** and CAD work. He has helped and given feedback to students developing better **design strategies and improve accuracy of CAD**.

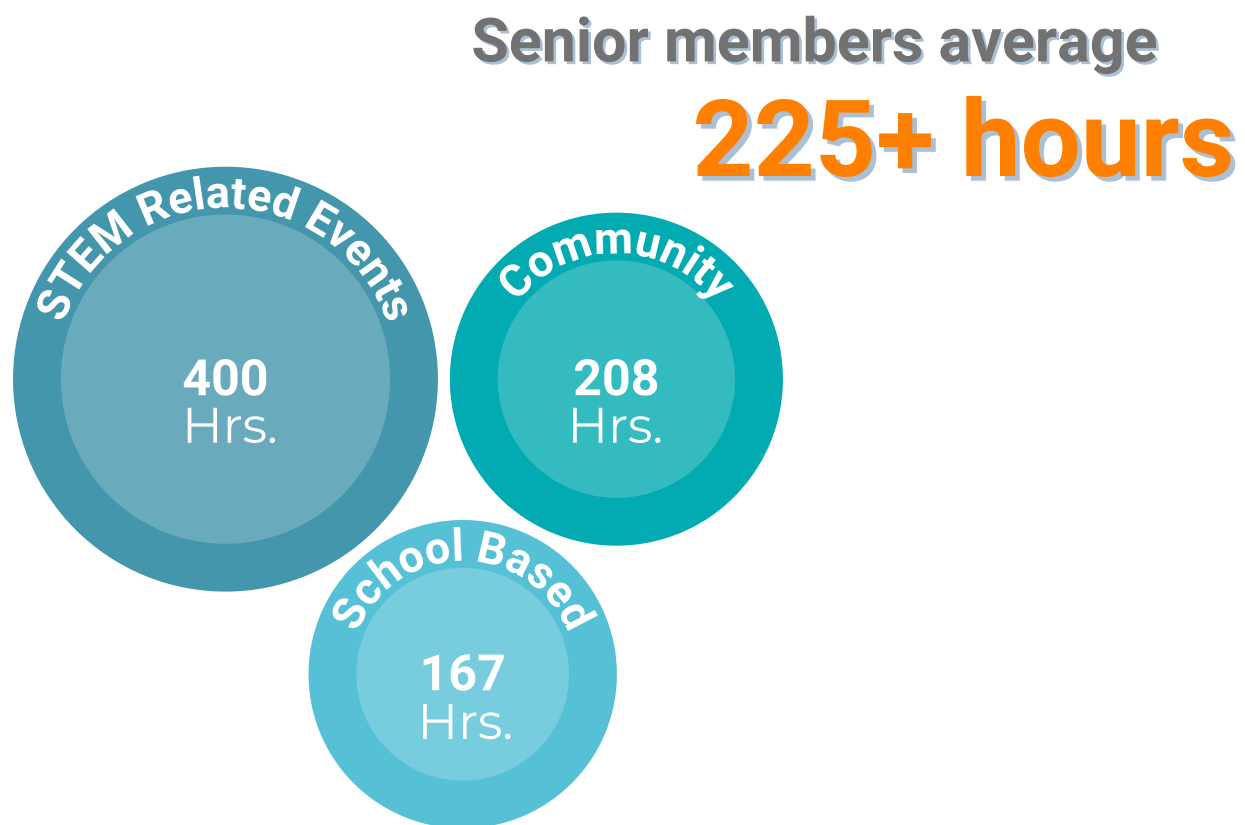


Outreach

Outreach

2.1 Outreach Statistics

Outreach is how we spread our program across the Coastal Bend. To qualify for trips, students must volunteer in least at 2 FTC competitions. This allows students to earn community hours needed for graduation, lend a helping hand to teams competing, as well as giving the younger cohorts a chance to learn from them.



Our commitment to the community in the Coastal Bend is shown through the number of hours we dedicate to outreach events. Ranging from a multitude of events, our team has volunteer over 400+ hours for STEM events, 200+ to community service, and 160+ hours to school based activities, with our seniors averaging dedicating over 100+ hours to community service. This shows our impact within the Gulf Coast community and what volunteerism means to Droid Rage 3035.

Outreach

2.2 FIRST Outreach

- **Droid Rage Mentorship:** Every season, Droid Rage 3035 provides assistance to our programs four FTC Teams, 13266, 18458, 10862, and 6901, aiding our teams to continue improving throughout their competition season. Through our help with engineering, software, and marketing assistance, we succeeded in helping over 4+ teams.
- **FTC League Meets:** Members of Droid Rage are required to attend and volunteer in at least 2 FTC League meets every season to qualify for trips. They offer mentorship to FTC teams and support to field resetting. Recruits who are unfamiliar with FIRST also gain experience of competition settings and learning what FIRST is about.
- **Buc Days:** This past season, students participated in volunteering at Buc Days, FRC Competition, committing their time to help with field-resetting and score keeping on the field, offering our assistance with teams and volunteering for the event.
- **CAD Workshop:** This past September Droid Rage hosted a CAD Workshop at Collegiate High School, inviting FTC teams across the Coastal Bend to attend and gain experience on how to navigate Onshape. We found it successful with many students, mentors, and coaches attending and gaining new insights.
- **Safety Raffle:** As members of the FIRST Community, we believe that safety is a top priority, with each year Droid Rage organizing a safety raffle, aiming to promote safety in a fun and engaging way at competitions.



Outreach

2.3 Community Outreach



- **Code-It-Camp:** Every year Droid Rage aids in hosting Code-it Camp. Through this we support over 20+ middle schools across the community by teaching STEM and basic coding through various stations that our members host. We also give students attending Code-It Camp an introduction to FIRST robotics and who we are.



- **Valero STEM Day by the Bay:** Members of Droid Rage volunteer at Valero's STEM Day at the Corpus Christi Museum of Science and History, helping lead stations and inspiring kids to explore science and engineering. Through this we actively promote STEM education and strengthen our community connection.



- **CTE Pathways Event:** Droid Rage is yearly invited to the CCISD CTE Pathways Event, allowing us to share our passion for STEM and FIRST robotics. At this event, we aim to inspire younger students to begin considering taking on a STEM pathway, learn about both our school and robotics program, and getting to know what FIRST is about!



- **Viking Fest:** Our program took part in the annual Viking Fest with Del Mar this past year, using this fun event to promote our robotics program and showcase our school to fellow attendees of the event.

Outreach

2.3 Community Outreach

- **Tech2Learn:** Every year our program is invited to participate in the annual Tech 2 Learn event hosted by the Corpus Christi Independent School District, showcasing our robotics program and about FIRST Robotics to various schools.
- **CCISD State of the District:** This past year we were invited by CCISD to the CTE State of the District Event. Students were able to outreach to and interest CCISD professionals attending the event with our involvement in the community and FIRST in Texas.
- **Geek Gala:** At the Corpus Christi Museum of Science and History Geek Gala Event, Droid Rage was able to connect with professionals or those in STEAM within our community about regarding our robotics program and our impact within the Gulf Coast area. Through this we were able to spread more awareness about FIRST Robotics, our program, and gained new possible sponsors and connections within our community.
- **Workshops at Kick-off:** Droid Rage hosted workshops at the FTC Kickoff at Vets Memorial High School to help Gulf Coast Teams prepare for the season. Our teams covered CAD presentations, marketing workshops, and software workshops to provide tips on robot designing and Onshape, programming, and tips for portfolios.



Sustainability

People Initiatives

3.1 Recruitment

Droid Rage recruits students from both of our partner schools, which serve the entire Coastal Bend region. To strengthen recruitment, we host team-wide meetings, attend showcases, and other STEM events where potential students, parents, and sponsors can learn about our program and its impact. By involving families and partners early, we create a strong support system that helps our team grow and remain sustainable.



3.2 Promoting Safety

Safety is one of Droid Rage's core values. Our team takes proactive measures to ensure a safe working environment in both the classroom and workshop.

Our safety initiatives include:

- Establishing clear safety guidelines for proper attire and equipment use
- Conducting safety training before students operate machinery
- Performing regular equipment inspections
- Teaching emergency response procedures
- Using incident report forms to track and prevent future issues



To encourage safety culture, Droid Rage also hosts safety raffles, rewarding students who demonstrate safe practices with gift baskets.

3.3 Mentorship & Education Programs

Droid Rage extends learning opportunities through our STAR workshop program, which hosts both in-person and online workshops Teaching engineering, programming, and marketing fundamentals. Older robot parts that are no longer competition-ready are reused for training or donated to other teams in the areas. This allows new members to experiment with mechanical and electrical systems without risking expensive competition components.



Sustainability

Prosperity Initiatives

3.4 Prosperity Initiatives and Fundraising

Team 3035 Droid Rage focuses on financial sustainability by maintaining strong sponsor relationships, organizing student-led fundraising efforts, and actively seeking new funding opportunities. These efforts allow our team to remain financially stable while continuing to grow and support robotics education in our community.

As a high school, student-led team, Droid Rage organizes fundraisers to help support team expenses and reduce financial barriers for members. One of our most successful events this season was our brisket fundraiser, which helped fund team merchandise and reduce costs for students.



3.5 Sponsor Partnerships

Long-term sponsor relationships are essential to the sustainability of Droid Rage. Our team maintains connections with local businesses that support us through donations and materials.

- A&B Plastics, which donates recycled polycarbonate materials each year
- White Cap, providing Droid Rage plywood for the team for the past two years
- T-Shirt Gallery, which works with our team annually to produce team merchandise
- Family owned businesses/member connections

By maintaining these partnerships and communicating regularly with sponsors, we ensure continued support while strengthening relationships between STEM education and local industry.

3.6 Grants and Community Outreach

We also actively seek new funding opportunities by applying for grants and participating in community events that allow us to connect with potential sponsors.

Our team attends outreach events including:

- Geek Gala at the Museum of Science and History in Corpus Christi
- Local STEM Nights
- Community robotics showcases

These events allow us to share our mission, promote STEM education, and build relationships with organizations interested in supporting our robotics program.



Sustainability

Planet Initiatives

3.7 Repurposing

Droid Rage follows sustainable practices by giving new purpose to resources that may no longer meet their original use, but are valuable to robotics innovation. **A&B Plastics** donates leftover polycarbonate sheets that would have otherwise been sent to the landfill. Students use these materials to **develop skills** with bandsaws, drills, and CNC while reducing the need for new materials.

3.8 Recycling

When materials can no longer be repurposed, Droid Rage ensures they are recycled properly. Our team sends polycarbonate scraps and 3D-printed parts to Ballyhoo Plastics, a facility capable of processing complex polymers. By researching a and partnering with local recycling enters, we ensure materials are disposed of in a environmentally safe way.

Impact:

- Supports STEM education in local community & local robotics teams
- Reduces unnecessary disposal of robotic parts
- Encourages sustainable use of engineering materials
- Promoting responsible recycling



3.9 Future Goals

Looking ahead, Droid Rage is committed to growing not only in size but impact. Our primary goal is to expand our sustainability efforts by increasing the use of recycled materials and integrating eco-friendly solutions. We aim to strengthen recruitment by reaching more schools across the Coastal Bend and continue to deepen partnerships with local businesses.



SWOT Analysis

Team Sustainability

3.10 S.W.O.T Analysis

S Strengths	Outreach: We actively seek to connect with many local businesses. Volunteerism: Team members volunteer at a wide variety of events and strengthening outreach. Team Member Commitment: Members dedicate a significant time, often staying after school and during breaks, to contribute to team success.
W Weakness	Mentor Communication: Limited mentor availability can sometimes slow decision-making/progress. Time Management: Balancing school, robotics, and other commitments can be challenging during the build season.
O Opportunities	Recruitment: Bringing in new freshmen and members allows us to grow the team and teach foundational roles early. Access to New Machinery: Support from sponsors provides advanced tools like CNC routers and 3D printers, expanding our technical capabilities.
T Threats	Team Attrition: Graduation of seniors can create knowledge gaps and reduce experienced leadership. Limited Practice Space: Ongoing space constraints may impact build efficiency and robot performance.