



Droid Rage 3035

FRC 2023 | Charged Up

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Business Plan

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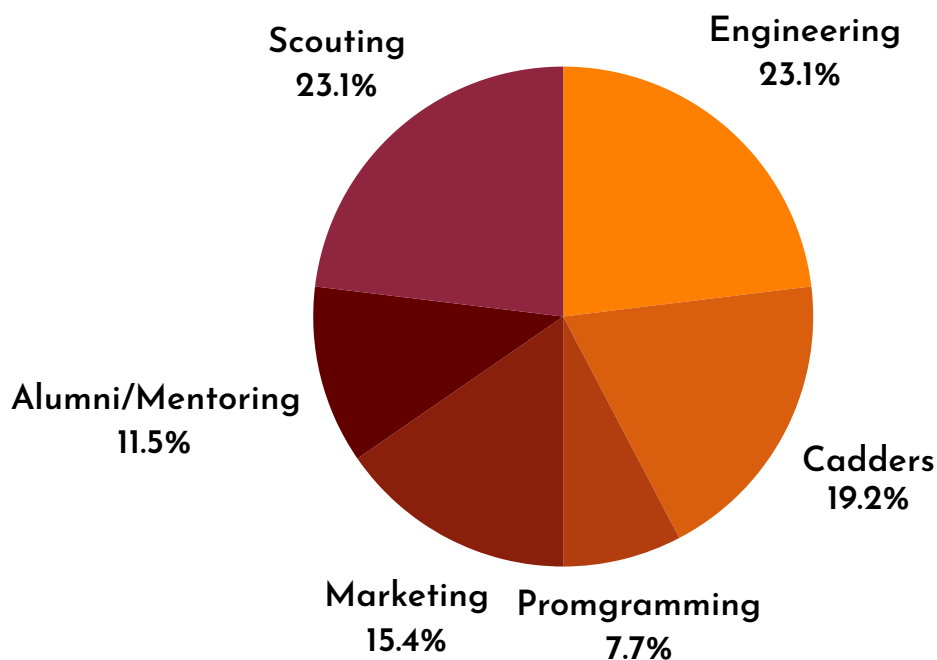
About Us

Team Overview



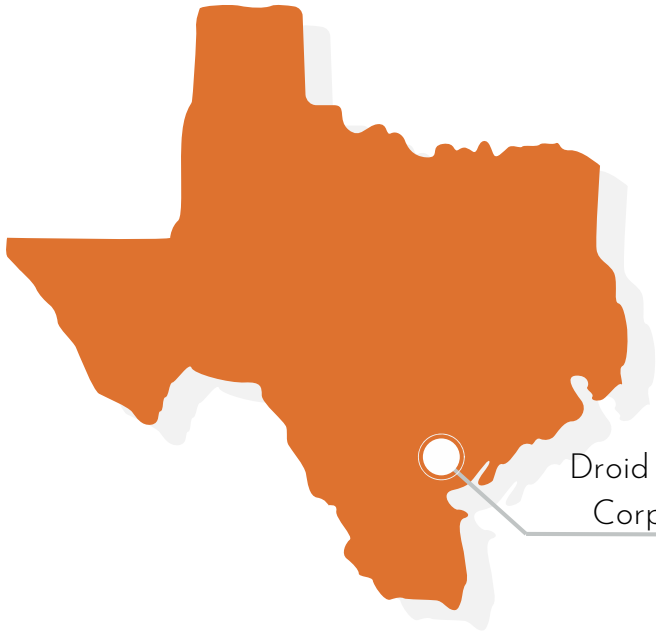
FRC 3035 2022-23 Team

For this game season we knew we needed to be more organized and efficient. So before kickoff, the team came together and assigned roles to every member. Our roles are scouter, engineer, cadder, programmer, and marketer.



This diagram represents the percentages that compose the roles in team 3035.

Origins



Droid Rage is located in
Corpus Christi, Texas

Droid Rage was founded in 2008 with the help of our mentor Ms. Riggs and our Principal Dr. Rodriguez and her husband.

Our first team was the creation of team 3035, FRC. Soon in 2012 Droid Rage expanded with three FTC teams. And more recently we branched out to our sister school, Harold T Branch, to create FTC team 18458 Battery Chargers in 2020.



Droid Rage has currently 5 teams under its name. Through the years we have gained a number of members our program provides great opportunities for people wanting a career in STEM.

Mission Statement

Our team 3035 strives to promote both an innovative and creative learning environment that motivates teamwork through STEM and business principles. Through exploration in all directions, robotics gives students the chance to identify their passions, widen their horizons, and develop new abilities that are sparked by creativity and critical thinking.

We aim to inspire student learning in science technology, mathematics, and engineering that goes beyond the classroom as we believe these skills are more important than ever in preparing teens for endless possibilities and support that is to come. Strong bonds and open communication between our students and mentors are the foundation of our team's FIRST robotics success.

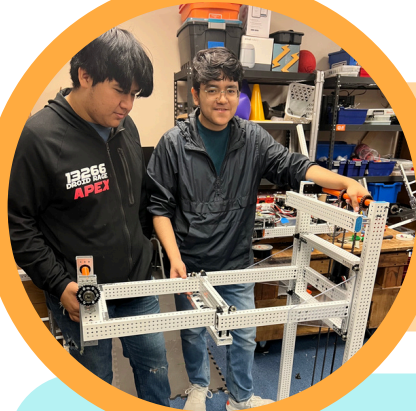
Vision Statement

The Collegiate High School Robotics team does not believe winning defines our success. We recognize team success when every team member contributes their entire efforts to bring forth individual creativity, demonstrate diverse abilities, work hard, and maintain perseverance to ultimately showcase the team's achievements.

We do not intend to generate or inflict unnecessary pressure upon our team to win a competition as they already endure enough unpredictable tasks and limited time to create functional and operational robots for First Robotics Competitions.

Our end goal is to inspire high school students to walk down STEM-related pathways and hopefully have more engineers or people working in the field of science and technology around the world.

Sub -Teams



Cadders

Our cadders utilize a program called Onshape. It allows them to design and implement mechanisms to complete the desired tasks during a match.

Engineers

Our engineers build and structure the robot based of the design our cadders created. Their role is to not only help design the robot, but also make sure the robot is able to function correctly to the best of its capabilities.



Programming

Our programming team is in charge of programming the robot to be able to interact and complete the needed tasks during game matches at competitions. They are also in charge for programming and tuning autos.



Marketing

The marketing team is in charge of finding and approaching potential sponsors. They are also in charge of marketing and putting our team out there in the community and out to the world through social media.



Scouters

A scouters role is to watch and determine how good a team is during a match. Their role is also to go out to a variety of teams asking them questions about their robot design, along with their teams ability to work together.



Prior Awards

Throughout the years Droid Rage has earned many awards and won many events.

2008

In 2008 Droid Rage 3035 was established and we started our rookie year.

2017

In 2017 team 3035 was awarded the Imagery Award at Alamo Regional.

2018

In 2018 team 3035 was awarded the Safety Award at Alamo Regional.

2019

In 2019 team 3035 was awarded the Autonomous Award in San Antonio and won the event. We also won the Industrial Design Award at Del Rio and won the District championship.

2022

In 2022 team 3035 was awarded the district champion finalist award at Houston.

Outreach



FIRST Outreach

A goal of Droid Rage is to spread awareness of FIRST and STEM in the community. We host and volunteer at many community events hoping to grow the interests of our community. Our events target a wide range of demographics

Judging for FLL

Team 3035 helped judge a *FIRST Lego League* tournament at a local elementary school, Windsor Park.



We upheld the standards of *FIRST* and showed examples of Gracious Professionalism through our fair judging. We were inclusive to every team and showed them the values of *FIRST*.

FIRST Outreach

Stem Nights

Droid Rage makes an effort to appear at many **Stem Nights** located at many schools near us like Dolson and Travis elementary and Kaffie Middle school. We introduce **FIRST** to **kids** and show case our robots. Kids are **encouraged** to join **robotics** in the **future**.



Relationships Within the Community

Droid Rage is very **well known** in our area. We like to be very **active** and make ourselves known all throughout our community. We never hesitate to **volunteer** when needed and even look forward to it.

We volunteer yearly for the **Valero Spooktacular Event** and we have formed a bond with Valero. This year Valero offered to pay for our lunches for an event as a **bonus** for volunteering.

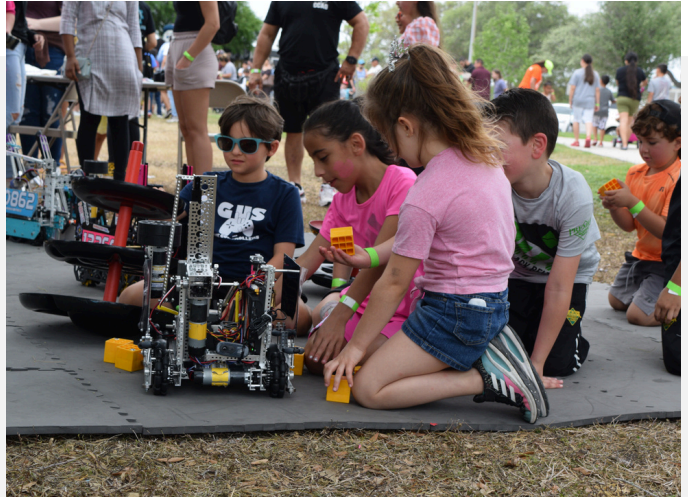
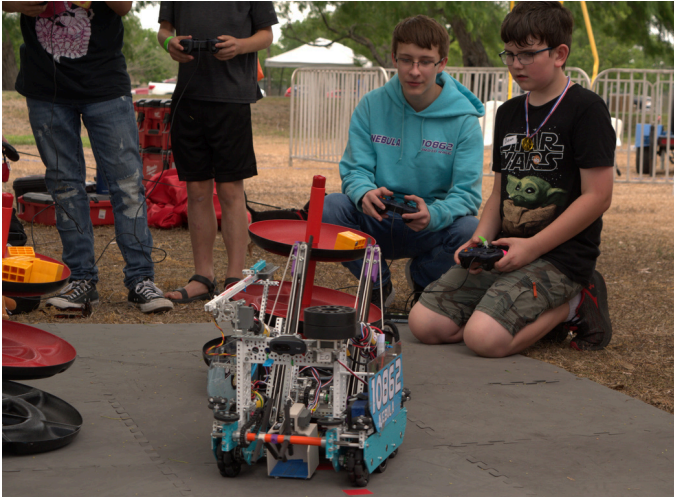


When **in need** we looked to our **community** for **help**. We searched through places near us hoping to find a sponsor. We found a few willing to give us tools or money to **support** our team.

Community Outreach

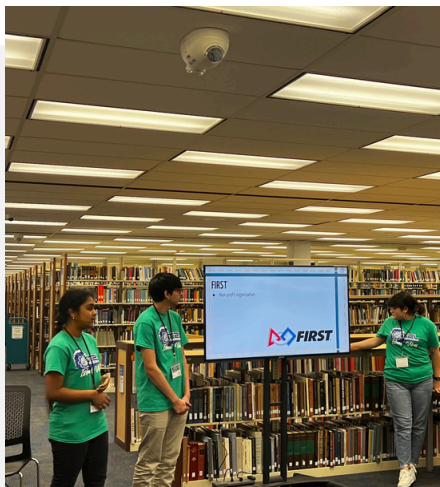
Howdy Daze

We volunteered for the Howdy Daze event at West Guth park located here in our area. We **show cased** our **robots** to **kids** and let them drive.



Tech2Learn

Every year we participate in a Corpus Christi Independent School District hosted event called **Tech2Learn**. Schools in the district **present STEM related subjects** to other high schoolers and we presented **robotics**



Community Outreach

Valero Spooktacular

Yearly we volunteer at the Valero Spooktacular by helping children interact with engaging activities related to STEM.



Code it Camp

Droid Rage holds an annual Code it Camp in the summer. Middle schoolers are invited to learn how to code and contribute in a number of other activities.



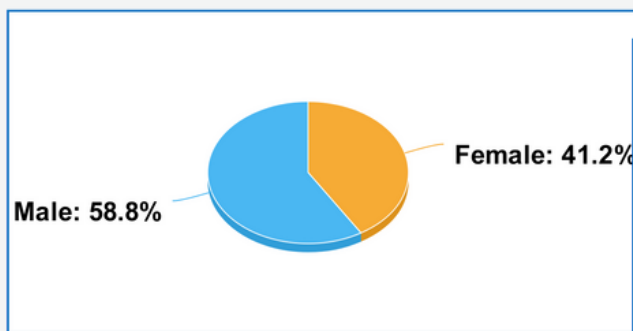


Team Analysis

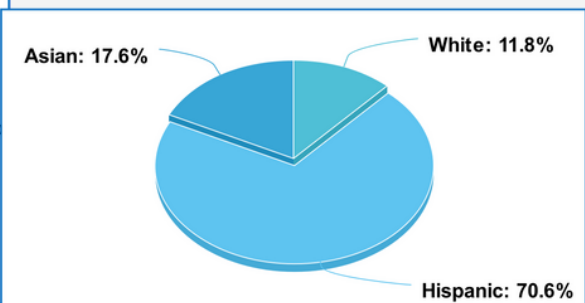
Student Demographics

Droid Rage has a competition history that spans 14 seasons, since 2009. Over a hundred students, from all backgrounds have contributed to building our Droid Rage family. The charts represent the diversity from this years team.

Gender Demographics



Race Demographics



Student Impact

Since Droid Rage consists of two Early College High Schools. 100% of our seniors graduate twice. A High School diploma and an Associates degree with DelMar College.



Students are allowed to take college classes since freshmen year. Many members of the Droid Rage Family graduate to work in a STEM related career. Although not all students graduate to work in a STEM related career. They still receive a post secondary education. Many of our alumni attend great Universities here in Texas



SWOT Analysis

Strength

Our strengths this year are our organization and time management skills. Compared to previous FRC seasons, our team had a better organization system and better time management. These important skills allowed us to progress more; in a few instances, our marketing team had brought in more sponsors that allowed us to get new parts and services. Another strength this year was our robot design. We improved on our robot's design this year and opted for a simpler, but more effective design.

Weakness

A disadvantage that Droid Rage faces is having a significantly smaller team compared to other FRC teams.

Although our team is bigger compared to Droid Rage teams in older seasons, our team this season only consists of 16 members. Each of us were delegated larger workloads due to our size. Another weakness our team has is the fact that our team consists of many committed, although inexperienced underclassmen. We continue to educate them on FRC while also finishing our work.

Opportunities

This season, we had more access to more machinery and equipment, including CNC routers and 3d printers, thanks to our marketing team, who found two tool sponsors that would help Droid Rage. This opportunity allowed us to create relationships with businesses and it helped us through our assembly process.

Threats

One of our biggest threats to the team was commitment. We had members on the team that would put in effort one day and then just give up the next. Or they would not put time into the team. Then another threat we faced was transportation. We could not find a bus driver that was available for the Waco comp.

Financials



	C	
	Entity/Donor	Spor Func /Win
00	FIT TWC	
	ReGrant	
96	DTR - S & S	
00	Citgo	
	RMC	
	AEP TEexas	
	CFA	
96		Total
70		



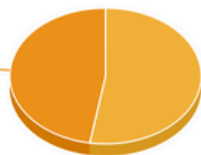
Team Budget

Outlined below is 3035's 2022-23 game season budget. Figure- shows our income and expenses for the robot. Most of our income came from well known sponsors like Citgo and AEP. Our budget mostly went to the creation of the robot.

	A	B	C	D	E	F	G	H
1	DROID RAGE BUDGET 2022-2023 Power Play SEASON							
2								
3	Expenditures		Entity/Donor	Sponsors/Grant Funds/ReGrants /Winnings		Vendor	Team Robot Purchase Orders	
4	FRC National Registration	\$6,000.00	FIT TWC	\$1,000.00		BBQ Robotics	\$2,200.00	
5			ReGrant	\$1,000.00		WCP	\$277.56	
6	Robot Expense	\$9,741.96	DTR - S & S	\$1,000.00		Andy Mark	\$1,699.71	
7	Marketing Materials	\$0.00	Citgo	\$3,000.00		Rev Robotics	\$4,965.69	
8			RMC	\$100.00		Thrifty Bot	\$599.00	
9			AEP TEexas	\$6,000.00				
10			CFA	\$70.26				
11								
12								
13								
14								
15								
16	Total Expenitures	\$15,741.96		Total Funds	\$12,170.		Total Expenitures	\$9,741.96
17								
18	Total Net Expenditures	-\$3,571.70						

Traveling & Lodging

Channelview: 4736 \$



Waco: 5264 \$

The diagram shows how much we will spend for traveling and lodging for each district competition

Local Sponsors

This year Droid Rage wanted to reach out to local business to help support us in our journey in this years game season. We are very appreciative for each business' support and help.



The Shirley and Sandy Team of Dream Team Realtors continuously supports and always a generous sponsor of 3035 Droid Rage. We appreciate all of their assistance they provide.

Ram Tool was droid rages 1st tool sponsor of the year. They donated roughly about \$850 worth of tools. Their support helped us put our bot together

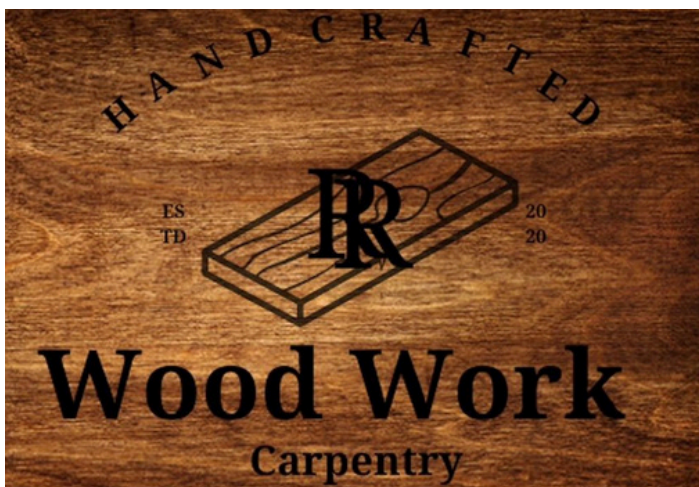
RAM TOOL
CONSTRUCTION SUPPLY CO.

Local Sponsors



No Hassle Tools was our 2nd tool sponsor of the year. They donated roughly \$1200 worth of tools. They donated a range of tools that we use constantly in the workshop and on trips.

Rick's Body Shop helped powder coat our parts to create this year's custom white robot.



RR Wood Work aided the build of a custom battery cart to store our batteries for use in the workshop, expos, and competitions.