GULL LAKE HIGH SCHOOL ROBOTICS

Sponsorship Packet 2023 / 2024

Based in Richland, Michigan, our program covers the Gull Lake Area, which includes Richland, Hickory Corners, Ross Township, Bedford, Augusta, Galesburg, Delton, and Comstock.

Welcome to Our Program

Gull Lake Area Robotics (GLAR) is a federally recognized non-profit organization dedicated to teaching the next generation of innovators and giving them a space to learn new skills in a professional environment. We encourage you to study our sponsorship packet to see our impact on our students every year.

Student Built - Professionally Inspired - Community Driven

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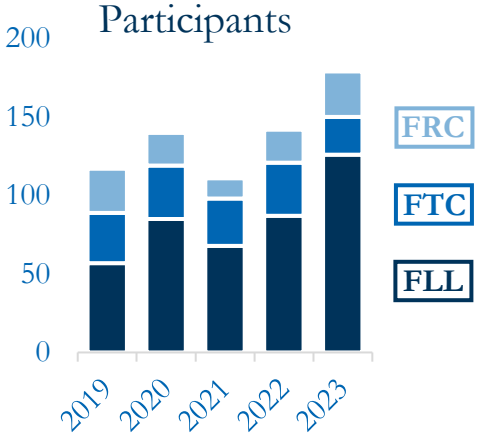
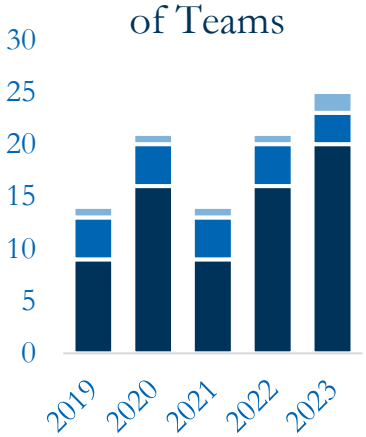
The main goal of our program is to build and nurture the workers of tomorrow through our volunteer-driven program. We start with *FIRST* Lego League (FLL) in elementary. Our students then grow into our *FIRST* Tech Challenge (FTC) program in middle school. Once they advance to *FIRST* Robotics Competition (FRC) in high school, it introduces them to a more specialized, dedicated, and competitive team environment. On FRC, we show teamwork while earning leadership positions in our Junior Varsity team (4422) and Varsity team (4381).

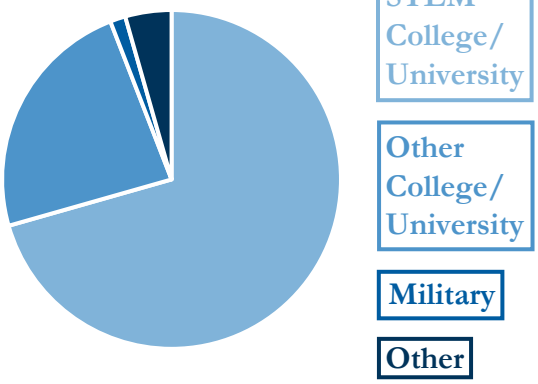
Yearly Student Participants



Yearly Number of Teams



Graduates' Post-Secondary



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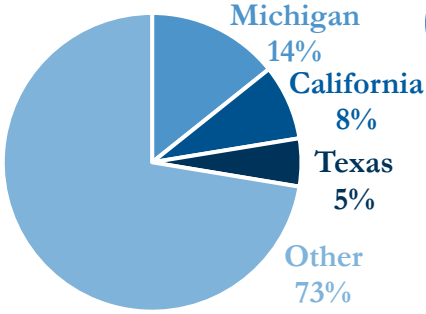
Fun Fact

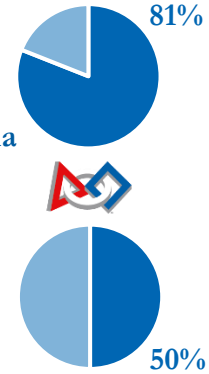
Over 2.5 million student participants have been impacted from 100+ countries since 1989.

FIRST Robotics Competition

Each season *FIRST* Robotics assigns their teams a set of tasks. The goal is to build a robot capable of competing efficiently and under specific parameters. We have 7 weeks of building, wiring, and programming our robot before our 7 weeks of competing that culminates at the World Championship during Week 8. *FIRST* Robotics consists of over 3000 active teams from around the world. These teams represent 30 countries and all 50 US states.

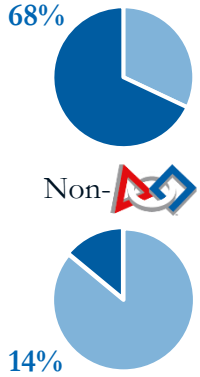
FRC Team Populations





81% of *FIRST* alumni declare a STEM major by their fourth year in college compared to 68% of their non-*FIRST* peers.

50% of female *FIRST* alumni declare an engineering or computer science major by their fourth year in college compared to 14% of their non-*FIRST* female parents.



Program Timeline

2023 – 2024 So far…

Workshops

- Programming, CAD, Prototyping

Innovating FTC code structure to support gyro in autonomous.

New student-made sponsorship packet and other documents

2022 – 2023 4422 is Created.

4381 wins all three District Events

Both teams are Finalists of their separate State Divisions

4381 ranks 76th in the World while Rookie team 4422 ranks 276th

Rookie Year for FLL Discover

2022 – 2023 Return from Covid.

Win both of our District Events

Finish the season in the top 150 teams of the world.

2020 – 2021 • Skills Competition Finalist

2019 – 2020 • Win the Chairman's Award

2018 – 2019 • Industrial Safety Award at State. Rookie Year for FLL Explore Program

2017 – 2018 • Build our current Build Facility and win the Chairman's Award

2016 – 2017 • Imagery Award at State and Rookie Year for FLL Challenge program

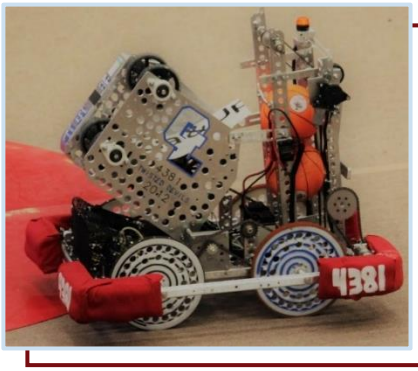
2015 – 2016 • FTC Team 9087 wins State and makes Super Regionals

2014 – 2015 • Win 1st District Event and qualify for Worlds for the first time

2013 – 2014 • The FRC program and mentors take over the FTC program

2012 – 2013 • Win the Judges Award and make it to States for the first time

2011 – 2012 • Our Rookie Year for the FTC and FRC programs and the FTC team makes State



Our first robot from 2012 to our most recent varsity robot from 2023

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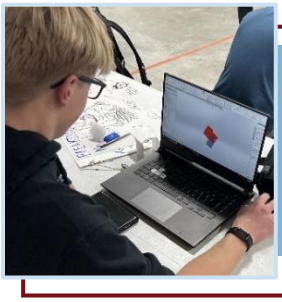
Fun Fact

FIRST volunteers and educators served over 21 million hours during the 2021 – 2022 season.

What We Contribute

Our program provides our students with various marketable skills based on their fields of interest. Options become more diverse progressively throughout our program, and we will often adapt aspects of our teams to fit every student's needs.



CAD

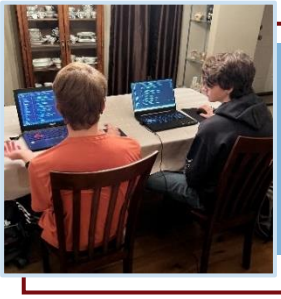
- Become efficient in SolidWorks.
- Create useful 3D-printed objects for the robot.
- Use 3D design aesthetically.

Mechanical

- Use power tools and machinery.
- Learning the imperial and metric systems for bolt sizing.
- Follow project manuals.

Electrical

- Navigate wiring diagrams and systems.
- Solder professionally.
- Care for electronic systems.



Programming

- Become efficient in Java.
- Research and test different code.
- Learn appliances to assist in robot programming.

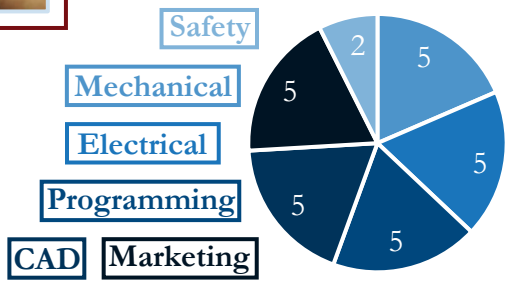
Marketing

- Design and update our websites.
- Become efficient in CorelDRAW.
- Learn crafting skills to apply to our hats and other spirit wear.

Safety

- Keep track of people's allergies.
- Enforce proper safety rules.
- Serve as a first-aid team if a teammate is injured.

The *FIRST* Robotics community is very welcoming, and GLAR strives to mirror this. Our team has minor sub-teams as well, the Strategy and Presentation teams. Our Strategy team keeps information together and makes strategic decisions during competitions. Our presentation team presents our program to sponsors or the community.



Contact Information

robotwisteddevils@gmail.com

FRC Twisted Devils Team 4381

www.gulllakearearobotics.com

TwistedAngelsTeam4422

Twisted Devils Team 4381

twisted_devils4381

C/O Springfield Machine and Tool

257 North 30th Street

Battle Creek, Michigan 49037

Fun Fact

FIRST programs reached over 534,000 students globally during the 2021 – 2022 season.

Community Outreach

Our team is actively involved within our community. The COVID-19 Pandemic forced us to restrict all of it, but several dedicated team members are bringing it back. A part of our mission is to spread the message of *FIRST* within our community in any way we can.

Our program participates in the Kalamazoo Air Zoo's STEAM Day. The high school robots are available for show, while people can drive the middle school robots. We also have a station where people can program our elementary robots with the help of an FLL Program Director.

Other Community Outreach Events

- The **FLL Explore Festival** coordinated by our highschoolers.
- **Geek Fest** at the Kalamazoo Expo where we display our current robots for FRC and FTC with one or two other programs.
- The **Post Presentation** is an opportunity for our students to continue our relationship with our sponsor at their Post Training Center.
- Multiple **Parades** every year that we walk in to spread awareness of our program.
- The **Michigan Career Quest** was an opportunity for us to show our program to 8th graders.

The GLAR mascot posing with FLL students.

Our students explaining our robot to 8th graders at the Michigan Career Quest.

Our team throwing candy to children at our local Memorial Day parade while showing off the 2022 – 2023 robots.

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Fun Fact

There were over 2,900 official *FIRST* events during the 2021 – 2022 season.

Finances

We love sharing our program with our students every year. However, it is not inexpensive. Gull Lake Area Robotics does not receive direct school funding, which compels us to rely on our gracious sponsors and admirable community. We would love to include you on our journey and maintain a steady relationship with your company going forward. We invite you to join the Gull Lake Area Robotics program on our mission to build the workers of tomorrow.

Simplified Budget by Category

	FRC	GLAR
Competition Fees	$27,000	$36,481
Robot Building Materials	$31,000	$41,550
Safety & Other Supplies	$6,000	$8,850
Travel Expenses	$5,000	$9,500
Miscellaneous Expenses	$2,875	$8,479
Total	**$71,875**	**$104,860**

	Logo on Website	Logo on Workplace Structure	Logo on Team Shirts	Logo on Robots	Social Media Spotlight	Announcement at Competition
Contributor $1 – $249						
Bronze $250 – $499						
Silver $500 – $2,499			FRC			
Gold $2,500 – $4,999			FRC	Small		
Platinum $5,000 – $9,999			FRC	Large		
Diamond $10,000 +			GLAR	Large		

Sponsorship Form

Please mail your donation and sponsorship form to Gull Lake Area Robotics, 257 North 30th Street, Battle Creek, Michigan 49037. To have your company logo on our shirts, donations must be received by **1/26/2024**. Please make checks payable to "Gull Lake Area Robotics". An acknowledgment letter for your tax-deductible donation will be mailed.

Company Name _____ Address _____

Contact Name _____ Phone Number _____ Email _____

Sponsorship Levels

- Contributor ☐
- Bronze ☐
- Silver ☐
- Gold ☐
- Platinum ☐
- Diamond ☐