



EagleForce Robotics

FRC Team 2073



Pleasant Grove High School

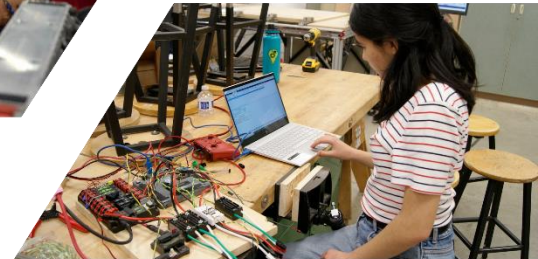
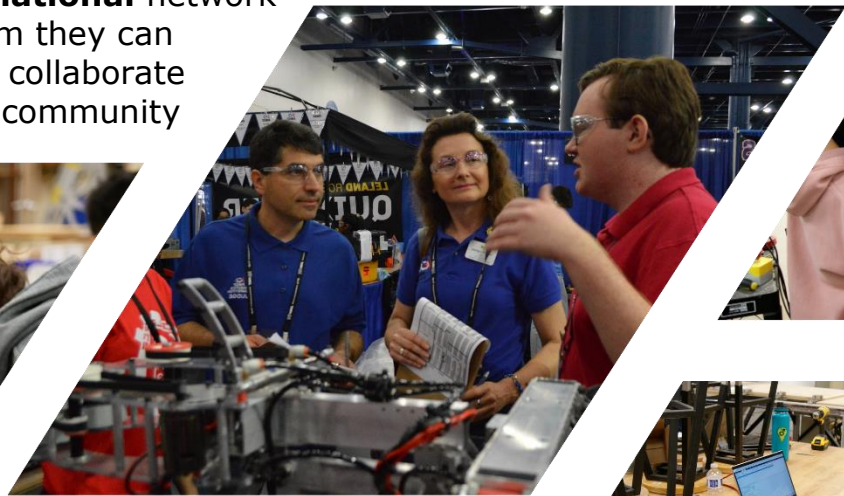
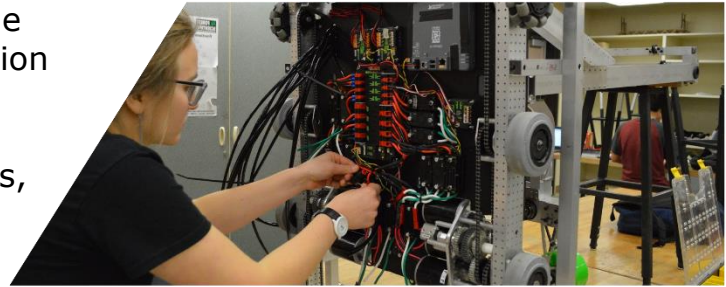
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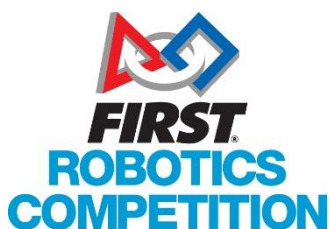
Become a Sponsor!

By sponsoring our team, you're partnering with us in our mission to inspire today's youth in becoming tomorrow's innovators. Your contributions will support our program as a reliable provider of STEM education:

- Our **technical** curriculum integrates industry-grade machinery and engineering software with preparation for future STEM careers in mind
- **Non-technical** learning opportunities include sales, finance, public communications, and project management
- Students also access an **international** network of like-minded peers with whom they can build lifelong relationships and collaborate on impactful initiatives for the community



We leverage **FIRST Robotics** (For the Inspiration and Recognition of Science and Technology) to offer these hands-on learning opportunities. FIRST is an international youth organization that provides robotics programs to teach young people the skills, confidence, and resilience for building a better world.

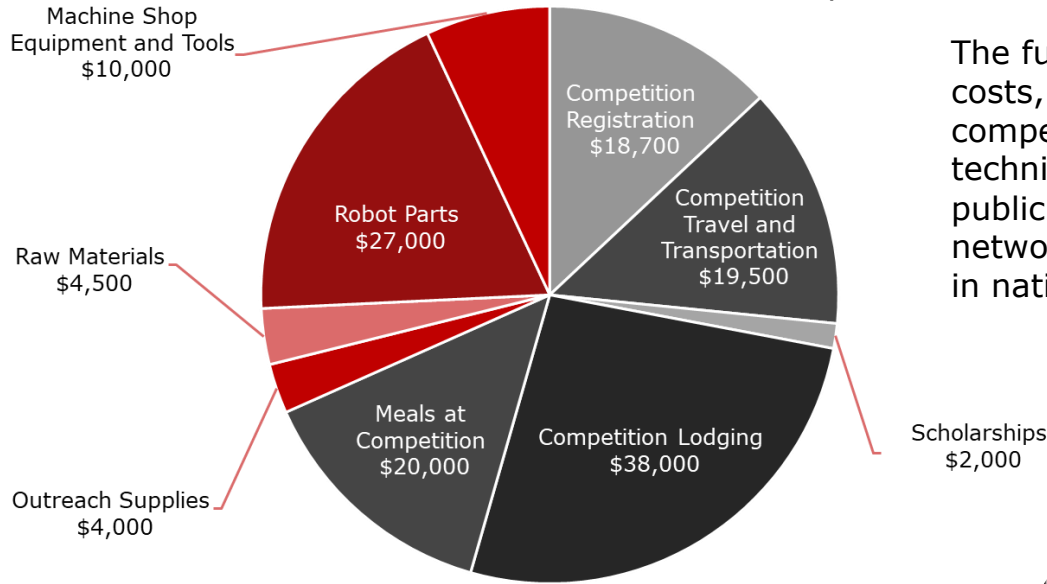


Our students participate in the **FIRST Robotics Competition (FRC)** program for 7th through 12th grade students. At this level of FIRST, teams build custom, 125-lb. robots to execute specified tasks on a tennis court-sized field both autonomously and with controls systems.



Budget Breakdown

We use the funding we receive to purchase robot parts and materials that expose our students to emerging technologies and allow them to not only build robots, but to also **innovate** creative engineering solutions and develop **critical thinking** skills.



The funding offsets travel and lodging costs, too, for our students to attend competitions, where they **apply** their technical skills under pressure, gain public speaking experience, and network with other like-minded peers in national and international settings.



Let's Follow the Money

When you support our team, you are investing in our students and our local community. With the help of our sponsors and donors over our lifetime, we have:

- Adapted electric toy cars for **two** kids with cerebral palsy to increase their mobility
- Hosted robot demos at **30+** school events across the Elk Grove and Sacramento Unified School Districts for **1,500+ students**
- Initiated and sustained **five** outreach programs to date to increase access to STEM education and experiences:
 - Capital City Classic, EagleCourse, ScoutReach, EagleKits, and CAP

Alumni Statistics

95% of Graduates Pursued Post-secondary education

87% of Alumni Majored in STEM

85% of our alumni Work in STEM industries

32% of Our alumni Continue to volunteer as mentors and FIRST event help

About Us



Our three operation groups are all driven by student-developed curriculum and initiatives.



Outreach Programs

Local Community

- Provide **curriculum-based**:
 - EagleCourse Robotics Summer Camps for 4-8th graders
 - Scoutreach Workshops for local boy and girl scouts to earn their robotics merit badges
- Attend elementary and middle **schools** and community events with robot demos and mini bots for hands-on engagement
- Assemble and distribute **STEM activity kits** to 1st-8th graders during robot demos
- Developing the **Connect-Assist-Play (CAP)** initiative with engineering activities adapted for kids with special needs
- Partner with **GATE** coordinators at local primary schools to build internal STEM-driven education programs



FIRST Robotics Community

- Co-host **off-season competition** Capital City Classic that features workshops taught by veteran teams to share technical and non-technical expertise
- Host annual **FIRST LEGO League (FLL) Qualifiers** for 24 NorCal teams that include machine shop tours and FRC robot demos to sustain the FIRST Robotics pipeline



Technical Operations

Mechanical Sub-Team

- Design with **CAD** software
- **Manufacture** parts using 3D printers, CNC mills and routers, lathes, and laser cutters

Programming Sub-Team

- Develop **automations** and **controls systems** using sensors and other electronics in Java
- Build **mobile apps** and **websites** in Python and HTML to drive game strategy

Business Operations

Finance and Media

- Develop **budgets** and fundraise
- Maintain team brand, website, and social media

Cross-Functional Collaboration

- Facilitate hands-on **interview practice** for students from all sub-teams ahead of award presentations at competition and speaking with attendees at community events

2022-23 Season in Review

Competition Stats

Arizona East Regional

Rank: 11th / 37

- **Result:** Semi-finalists

Aerospace Valley Regional

Rank: 5th / 36

- **Result:** Finalists (*Qualified for Champs*)
- **Spirit Award:** Celebrates extraordinary enthusiasm and spirit through exceptional partnership and teamwork

World Championships

Rank: 28th / 78

- **Result:** Quarterfinalists

Capital City Classic

Rank: 8th / 42

- **Result:** Quarterfinalists

Outreach Impact Measured

- **EagleCourse:** 2 sessions, 48 campers
- **ScoutReach:** 3 Girl + 2 Boy Scouts troops, 30 scouts
- **Shop Tours:** 15 tours, 180 students
- **EagleKits:** 11 events, 186 STEM activity kits given
- **CAP:** 1 session, 2 kids
- **FLL:** 1 Qualifier, 24 teams, 220 kids
- **Robot Demos:** 7 schools, 3 events, 1180 people

For the 2023-24 school year, we improved our ScoutReach program with an online appointment system and held a pilot CAP session to gather feedback for refining the initiative. We also began partnering with local GATE coordinators to launch STEM programs at their school.

Training for 2024

During this past summer, we updated our curriculum to train students on building a “**modular bot**” with swappable mechanisms on a singular drive base. The swappable mechanisms, such as an intake that rolls in balls or a double-jointed arm that picks up cones, allow us to **experiment** with designs and techniques without needing an entirely new robot each time.

2024 Season Plans

Silicon Valley Regional

March 1-3, 2024 San Jose, CA

Sacramento Regional

March 14-16, 2024 Elk Grove, CA

Aerospace Valley Regional

April 4-6, 2024 Lancaster, CA



Ways to Invest in Our Program



Monetary Sponsorship

The most direct way to support our students is through a **monetary donation** that we can use to:

- Afford the expenses for **educational projects** that teach technical and non-technical skills,
- Help our students **attend competitions**, where they apply and further build up their skills in a high-pressure setting that is collaborative with other FIRST Robotics students,
- Sustain, improve, and initiate current and new **outreach programs** that focus on identified areas of need in our community and beyond.



In recognition of our sponsors, we have a set of tiers based on the amount of sponsorship or in-kind donation that specify how we display the company name / logo – these tiers are outlined on the next page.

Contact us at business@team2073.com or scan this QR code to let us know you're interested in a sponsorship!

In-Kind Donation

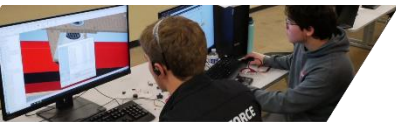
We need **in-kind** support as well – the following list outlines examples of technical and non-technical supplies and services we need:

- Lumber / aluminum / polycarbonate
- 3D-printing filament
- Powder coating services
- Food / restaurant vouchers

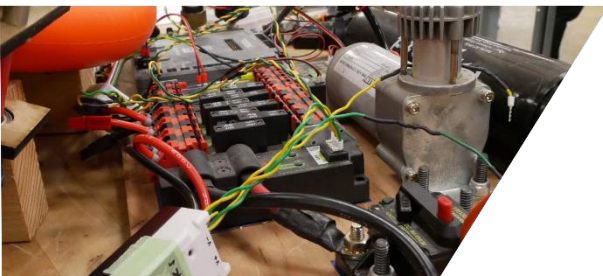


Collaborations

To strengthen our impact efforts and better help our community, we are always looking to **collaborate** with other organizations to access new resources and expand our reach. We have partnered with entities ranging from local schools in our district to national programs like GoBabyGo.



Below are some possible ways we could collaborate with **educational / nonprofit** organizations or efforts that you can connect us with – let us know what sounds the most exciting to you!



- A robotics **workshop** for youth featuring our hands-on STEM and/or robotics curriculum,
- **Volunteer roles** for your employees at FIRST Robotics events we host and/or participate in, like FLL Qualifier Tournaments and FRC Regional Competitions,
- A **tour** of our shop with a look at the industrial machines we use, close-up interaction with our robot(s), and meet-and-greets with the students benefitting from your support.

We also welcome **professional opportunities** that are available to our current students and alumni!

If you have company representatives who could attend a **"Q&A"** session at our shop or virtually or would like to share **internships** or post-graduate **careers**, contact us so we can discuss the options available.





Sponsorship

Benefits

Finch (\$500 - \$999)

- Logo on website
- Logo on team banner
- Logo on website

Cardinal (\$1,000 - \$2,499)

- Logo on website
- Medium logo on team banner
- Logo on team shirt

Blue Jay (\$2,500 - \$4,999)

- Logo on website
- Large logo on team banner
- Logo on team shirt
- Small logo on robot

Hawk (\$5,000 - \$7,499)

- Logo on website
- Logo on team shirt
- Large logo on team banner
- Medium logo on robot

Falcon (\$7,500 - \$9,999)

- Logo on website
- Logo on team shirt
- Large logo on team banner
- Large logo on robot
- Robot demo at your org. site
- Logo on website homepage

Eagle (\$10,000+)

