

FIRST - For Inspiration and Recognition of Science and Technology

FIRST Robotics Competition is the only sport where every participant can go pro.

In the FIRST Robotics Competition, students are given seven weeks to design, engineering, fabricate, assemble, program, test, and improve a 150 pound robot to play a sport-like game, and compete against teams from other schools in the ultimate varsity sport for the mind. There is a new unique game each year.

Success at local events leads to teams qualifying for their state championship, which gives teams a shot at qualifying for the culminating world championship event.



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Preparing a generation of employment-ready engineers

Access to Talent

Having the best talent gives your company an edge over your competitors. By competing in FIRST, Royal Oak Robotics is developing tomorrow's best talent. Through corporate-academic partnership, your company can get first access to the talent coming through our program - an investment that pays dividends for decades throughout the course of a career. In addition to brand recognition, we forward recruitment information from our sponsors to our students and their families, whether it's for internships, camps, or full-time positions for alumni.

Brand Recognition

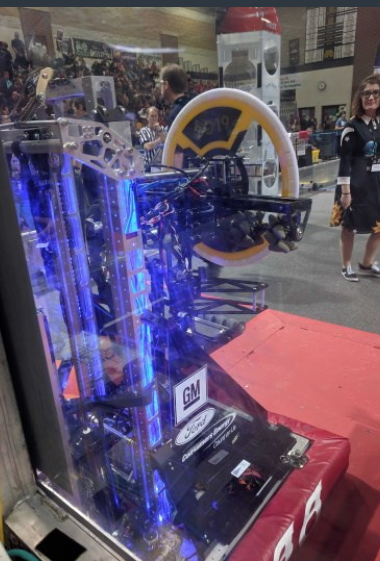
Our program has a culture of success that we owe to our sponsors. The FIRST championship in Detroit in 2018 was attended by over 40,000 people, including over 15,000 students. Having your branding on a successful robot and draped across the shirts of award-winning students shows the country, and the world, that your company values inspiration and engineering, and attracts high-quality prospective employees.

Inspiring a Competitive Advantage

One of the primary goals of FIRST is to inspire students to pursue careers in science and technology. This results in a competitive advantage for our country, and a competitive advantage for the businesses who make themselves a part of the mission. Your support in turn inspires us teach students what it takes to compete, and to win. Together, we can build a successful future for both students and employers.



To learn more about our the competition, our team, and the sponsorship opportunities we provide, read on!



DESTINATION:

DEEP SPACE

The 2019 Game



Sponsors: Fueling our greatest season yet

Overview

2019 was the year the Royal Oak Ravens robotics team took flight with our engineering lab, newly completed after a two-year buildout.

Accomplishments

This season we attended two qualifying events, winning an engineering award at each, and taking home an event win at one after winning 18 straight matches to go undefeated. This qualified us for the state championship where we made it to the finals in our division, where in a tight 3-match series we lost the tiebreaker by just three points - a single score. This qualified us for the World Championship Event.

The Strategy

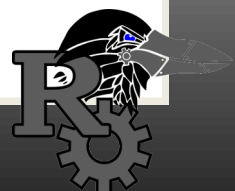
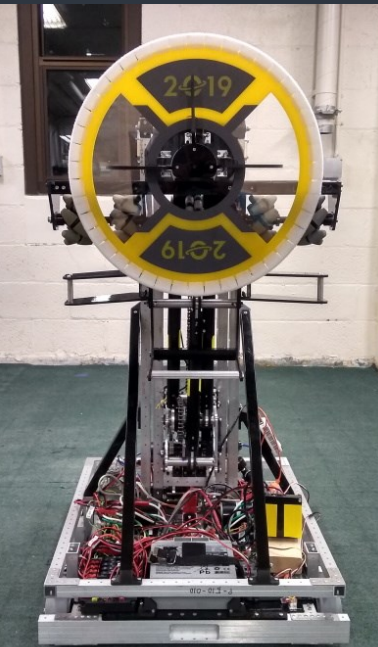
After analyzing the game, our team decided to focus on scoring the hatch panels - cylindrical discs, shown being carried by our robot to the left - and cargo, balls roughly 12 inches in diameter. At the end of the match we would "climb" on the 6" platform - but really, our climb was a high speed jump!

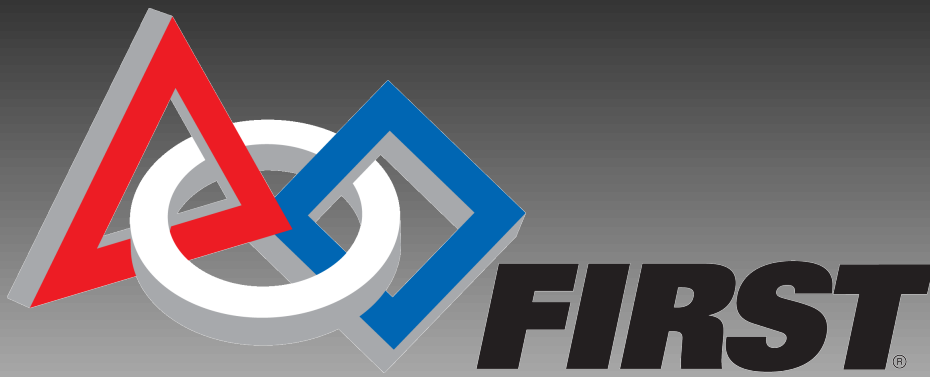
The Design

Our robot used a 6 wheel "tank drive" drivetrain - imagine tank treads, but with wheels instead of treads. It turns by driving one side faster than the other. We built a dual-purpose intake to handle both the hatch panels and the cargo. The hatch system used a pneumatically-actuated cylinder to lock hooks around the panels,



and release them after we place them on the goal. A roller intake would suck up the cargo, and running it in reverse would spit them back out. A three stage cascading elevator combined with an outreaching arm, let us raise and position the game pieces to score high on the rocket ship.





Our Mission

Royal Oak Robotics Team's goal is to transform culture in ways that will inspire greater levels of respect and honor for science and technology, as well as encourage more of today's youth to become scientists, engineers, and technologists. The team strives toward gracious professionalism while creating an environment where students grow as individuals.



To accomplish this, we teach valuable skills such as engineering, math, computer science, innovation, and collaboration by working in an intense career-like environment. Projects are on tight deadlines and the pressure is high be-

cause the competition is strong. The desire to compete and succeed brings out the best in students and drives them to learn far more than they could in a classroom setting alone. Our team sets a high standard and expects to do

well in competition, but the goal is not simply to win trophies - it is to teach students what it takes to succeed. By the time our students get to their first jobs, they're miles ahead of their peers.

A Word from the Coach

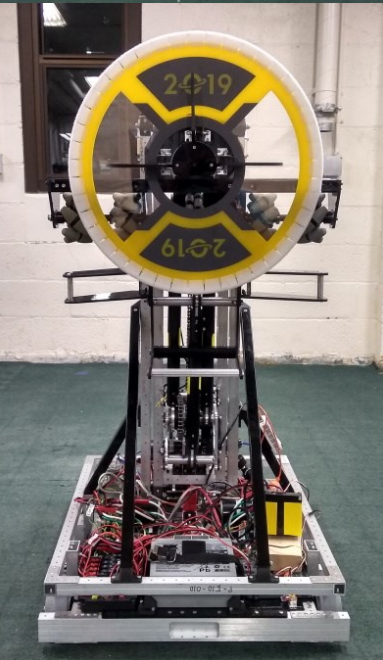
One of the tenets to the success of America has always been our unique ability to innovate. As time has passed we seen this ability begin to fade. When I first witnessed the robotics program I instantly realized how important it was. This is far bigger than any one student, school, or sponsor. The success of programs such as FIRST are uniquely tied to the future success of this country, and it is only possible because of the generous donations of so many sponsors. Without your help our team of future engineers, programmers, fabricators, designers, inventors, creators, and builders simply would not have an outlet to express their amazing skills. What I have witnessed from students, some as young as 14, would

amaze even the most seasoned engineers. Their talent is limited only by their imagination and their ability to finance projects. With your help we can ensure that the next generation lives up to high expectations set by all past generations, to create the next great everything! I would like to personally thank you for your time and consideration of sponsorship of this worthwhile program.

Sincerely,

Chris Mounts
Team Coach





Sponsorship Levels

Are you ready to help develop the next generation's new talent? Begin your partnership with us to transform our culture by choosing the level of sponsorship best suited for you. Your support makes our team possible, and every dollar makes a difference.

Royal Oak Robotics is a 501(c)3 charitable organization and all donations are tax-deductible.

To make a donation, please contact Cameron Beatty at cameronzbeatty@gmail.com. Thank you!

Visionary Partner: \$5,000+

Visionary partners, our flagship sponsors, make the annual operation of team a reality, and we will represent your brand with pride and with the following perks:

- Massive company logo displayed on our robot
- Large logo prominently displayed on our uniforms
- Premier recognition in all team communications
- Personalized invitations to attend our events
- Customized thank-you letter signed by all of our team members, honoring your contribution to culture change
- We will forward any internship opportunities, student outreach events, etc. your company has to our eligible students

Executive Partner: \$2,500+

- Company logo displayed on our robot
- Company logo prominently displayed on our uniforms
- Recognition in all team communications
- Invitation to attend our events
- We will forward any internship opportunities, outreach events, etc. to our eligible students

Sustaining Partner: \$1,000+

- Company logo displayed on our robot
- Company name displayed on our uniform in text
- Recognition in all team communications
- Invitation to attend our events

Supporting Partner: \$500+

- Company name displayed on our uniform in text
- Recognition in all team communications
- Invitation to attend our events

Thank you!

In addition to the tangible benefits we provide your company, you will have our enduring thanks from the next generation of developers and engineers!





Drop in!

Royal Oak Robotics thinks of our sponsors or prospective sponsors as team members. We encourage you to stop in and feel the excitement of what your support is building. Come check out what we're doing!

To get the most up-to-date schedule at any point during the year, contact one of the coaches below.

2020 Competitions

• MCC District Event - Feb. 28-29, 2020

Our first district event, at Macomb Community College (Warren campus), at 14500 Twelve Mile Rd, Warren, MI 48088

• Center Line District Event - Mar. 20-21, 2020

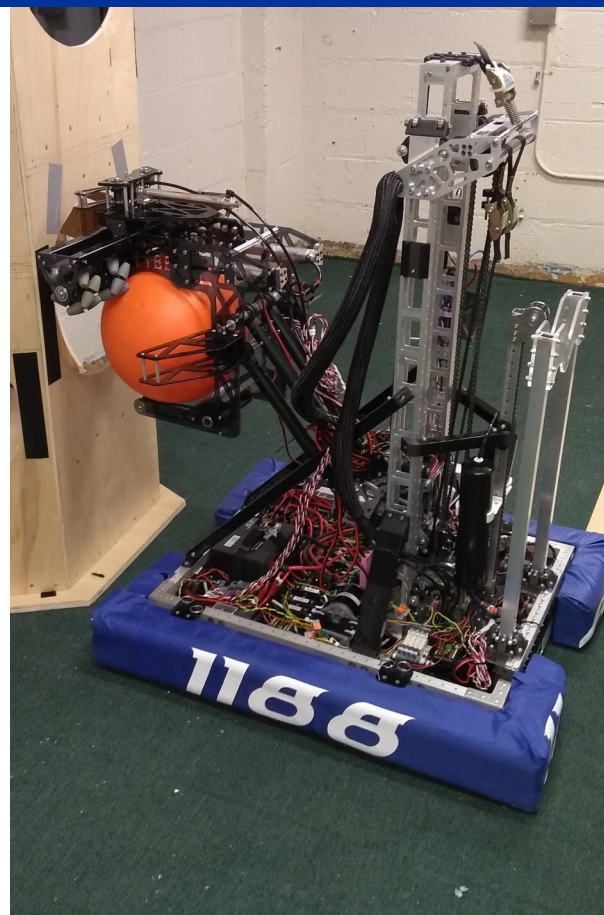
Our second district event, at Center Line High School, at 26300 Arsenal St, Center Line, MI 48015

• Michigan State Championship - Apr 8-11, 2020

The state championship is held at Saginaw Valley State University, at 7400 Bay Rd, University Center, MI 48710. This event is invitation-only based on qualification at our two district events.

• FRC World Championship - Apr 29-May 2, 2020

The world championship in Detroit is held at the TCF Center, previously known as the Cobo Center. This event is invitation-only based on qualification at the state championship.



Contact Info

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