

# **OPERATION P.E.A.C.E.**

## **ROBOTICS**

**4-H FIRST ROBOTICS TEAM 3461**



**SPONSORSHIP  
PACKET**



# **OPERATION P.E.A.C.C.E.**

**TEAM NUMBER 3461 - HARTFORD COUNTY 4-H**

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Thank you for your interest in Operation P.E.A.C.C.E. Robotics! We appreciate the time you have taken to learn more about our program.

Operation P.E.A.C.C.E. Robotics exists to encourage the development of student's interests in the areas of science, technology, engineering, and math. By doing so, the program prepares young minds to work and thrive in our increasingly technological world and global economy. The team participates in a competition held by *FIRST* (For Inspiration and Recognition in Science and Technology), a program developed in order to inspire more interest in the fields of STEM. Every year, our team designs, builds, and programs a large-scale robot that performs a series of assigned tasks - all in the span of six weeks. In 2022, our team competed in two different regional events and qualified in our District's Championship event and the *FIRST* Championship held in Houston for the second time.

The process of building and designing a robot is not an easy one. The path from the kit of parts to a competition-worthy robot is long and stressful, but the benefits of the journey reaches far beyond our competitions. Through the program, students gain a priceless opportunity to experiment and explore their technological capabilities and gain exposure to several aspects of STEM related fields, including technical design, computer programming, fabrication, and even business management.

In order to make this journey successful, the team needs support from the community on several different levels. One of the most effective ways to support our team is to sponsor us financially. By contributing monetary support, the team will be able to purchase the necessary materials and tools to construct the robot and compete at events; in return, we offer several benefits (details within). The team also needs mentors with training and experience, to educate our students in both technical and non-technical fields. Thirdly, sustaining in-kind support through product donations and discounts allow us to stretch our financial resources even further. Any support offered will help enrich the Operation P.E.A.C.C.E. program and better ensure that students have the opportunities and exposure to STEM and prepare them to meet the growing demand for STEAM leaders.

Thank you for your consideration. Please do not hesitate to contact us with questions. We look forward to hearing from you.

Sincerely,  
Stephenie Yard  
[sponsors@peacce.org](mailto:sponsors@peacce.org)



# WHO WE ARE

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Operation P.E.A.C.C.E. (Practicing Engineering and Competitive Cooperative Excellence) Robotics was established in 2010 to excite students to pursue STEAM through competitive robotics in Bristol, CT. Our team is a community team, meaning that we are not tied with any school system, being financially independent with the help of 4-H. Furthermore, we accept anyone regardless of background and skill level to join our team so they can learn the necessary skills to become the next generation of innovators.

Every year, we strive to compete at the highest level as our students gain more experience in STEAM to outperform previous year achievements. Today, the team is a strong player in the FIRST community, competing not only at the New England District Championships, but also the World Championships in Houston, TX.

## SKILLS

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Our program's one true goal is to foster our student's skills throughout their time on the team. Members of Operation P.E.A.C.C.E. develop essential 21st century traits that make them highly sought after in the workforce. Students learn from mentors who are experts in their respective fields; such as engineers, software designers, and business professionals.

By the time a member graduates from the team, they will gain skills such as:

- How to apply engineering principles via the designing and construction of the robot
- Gained fluency in industry standard engineering software (Labview, SolidWorks, Java, etc.)
- Participated in community service and outreach
- Created a network with many engineering firms and companies
- Developed business skills in fields such as marketing and graphic design
- Refined their public speaking and presentation skills



# WHAT IS FIRST?

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*Competition for the sake, not of destroying one another, but for the sake of bettering and improving both competitors as a result of the competition.*

- Woodie Flowers

For Inspiration and Recognition of Science and Technology, or FIRST, was founded in 1989 by inventor Dean Kamen to inspire young people to be science and technology leaders by engaging them in exciting mentor-based programs. Based in Manchester, NH; FIRST is a 501(c)3 not-for-profit organization that builds science, engineering, and technology skills; inspire innovation, and foster well-rounded life capabilities including self-confidence, communication, and leadership.



## FIRST ROBOTICS COMPETITION

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The FIRST Robotics Competition (FRC) challenges high school aged students - working with professional adult mentors - to raise funds, design a team "brand", hone team work skills, and build and program industrial-size robots to play a difficult field game against like-minded competitors under strict rules, limited time, and resources. It's as close to real-world engineering as a student can get.

FRC provides opportunities to students who might not otherwise have discovered an interest in careers in science and technology. By utilizing project-based learning, FIRST students learn a variety of skills including:

- TECHNICAL SKILLS - CAD literacy, software design, and mechanical engineering
- BUSINESS SKILLS - marketing, public relations, graphic design, and grant writing
- SOFT SKILLS - time management, accountability, problem solving, communication, and adaptability.



# ACCOMPLISHMENTS

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2011 - 2014

- Highest Rookie Seed at Northeast Utilities FIRST Connecticut District Event
- Team Spirit Award at Southington District Event
- Quality Award at Pine Tree District Event

2016

- District Event Winner at Hartford District Event
- Dean's List Finalist Award at New England District Championship

2018

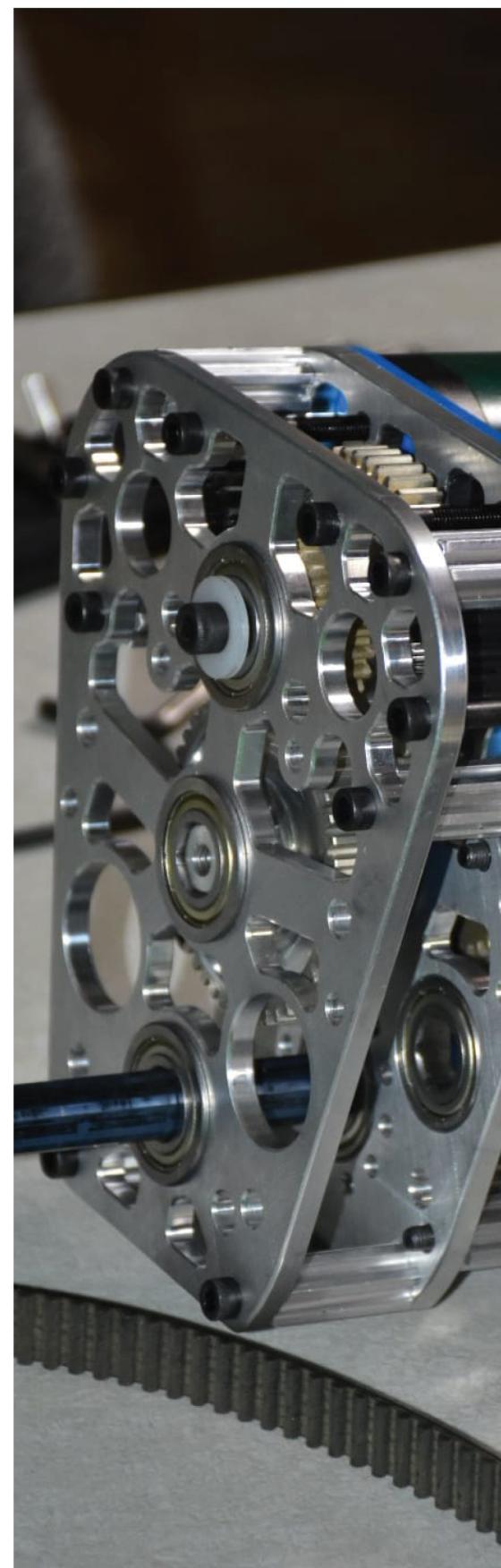
- Team Spirit Award at Southington District Event
- Quality Award at Pine Tree District Event

2019

- District Event Finalist at Western New England Event

2022

- Entrepeneurship Award at Waterbury District Event
- 3rd Seed Captain at New England District Championship
- 5th Seed Captain at World Championships -- Newton Division
- Quality Award at World Championships -- Newton Division



# TEAM IMPACT

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Operation P.E.A.C.C.E. Robotics organizes a few outreach initiatives, and we're currently working on creating more partnerships in our area. These initiatives allow Operation P.E.A.C.C.E. to give back to the community by educating people on STEAM and FIRST.



## COMMUNITY OUTREACH

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**Harwinton Fair** - We've attended the Harwinton Fair for the past 7 years. We run a booth where we demonstrate our robot and encourage children to drive it as well. We also sell an assortment of taffy. We often help with fair preparation by painting buildings and signs and cleaning up the fairgrounds.

**Bristol Mum Festival**- We've attended the Bristol Mum Festival for the past 5 years, running a booth where we demonstrate the robot and encourage children to drive it. We also sell an assortment of taffy.

**4-H Fair** - We've attended the 4-H Fair for the past 8 years, where we showcase our robot and allow our community to operate it. We help by doing a lot of tasks such as keeping the bathrooms tidy and stocked, preparing meals, and arranging the dinner hall with chairs and tables.



## STEAM OUTREACH

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**Bristol Boys & Girls Club** - In 2016, we created a STEM curriculum for the Bristol Boys & Girls Club. It was the first of its kind to be introduced into any Boys & Girls Club in Connecticut and other clubs have since used our program as a model to create their own.

**Java Programming Class** - This class has been run every summer since 2017. The class usually hosts about 15 students and they are given multiple challenges to complete in order to help teach them about Java programming. One of these challenges is usually to write a program to control the past season's robot.

# HOW YOU CAN HELP

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As a FIRST Robotics team, there are many costs associated with running a team. Below is a list of specific items that the team is fundraising for, in addition to the general costs associated with running the team.

2022 - 2023 SEASON ESTIMATED COSTS		
ITEM	COSTS	BREAKDOWN
Robot Materials Cost	\$6,000	Materials, electronics, machines
Travel	\$42,000	Events, Championships, Worlds
Team T-Shirts	\$300	Fabric, dye, printing
Registration Fees	\$15,000	
Event Registration	\$6,000	
District Championships	\$4,000	
World Championships	\$5000	
Competition Pit & Equipment	\$3,000	Shelves, equipment, and promotional materials
Sponsor Recognition	\$500	
<b>TOTAL EXPENSES</b>		<b>\$66,800</b>

Beyond material costs, the team also needs mentors that could help in the following areas:

MENTOR ROLES AND DESCRIPTION	
Mechanical Design	Design mentors will guide the team through the design process; from the idea through assembly and operation.
Programming	Programming mentors will work with a team focusing on programming, testing, and operation of the robot and its features.
Business and Media	Business and Media mentors will focus on imagery, presentation, finance, grant writing, documentation, and outreach of the team.

# SPONSORSHIP TIERS

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Any donation, whether financial or monetary, goes a long way towards the success of our team and of our members. We have multiple sponsorship benefits, which are listed below. We appreciate any support.



## PLATINUM SPONSORS - \$3,000 +

Gold benefits, plus...

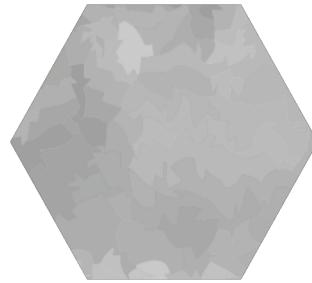
- A medium version of your business' logo displayed on our robot, our banner at events, tournaments, fundraisers, and on the back of our t-shirts worn by team members
- A thank you letter with a plaque



## GOLD SPONSORS - \$1,000 - 3,000

Silver benefits, plus...

- A small version of your business' logo displayed on our robot, our banner at events, tournaments, fundraisers, and on the back of our t-shirts worn by team members



## SILVER SPONSORS - \$100 - 1,000

Bronze benefits, plus...

- A business card sized logo displayed on our robot, our banner at events, tournaments, fundraisers, and on the back of our t-shirts worn by team members
- Your logo and a link to your website on the sponsorship page of our website



## BRONZE SPONSORS - \$25 - 100

- A social media "shout-out" on our team Facebook, Twitter, and Instagram page
- A thank you letter