

The Blitz Team
FRC #2470
Thomas Jefferson High School



TEAM & PROGRAM SUMMARY

Team & Program Summary:

The FIRST Robotics Competition is a program run by an organization named **F**or the **I**nspiration and **R**ecognition of **S**cience and **T**echnology (FIRST). Students work with professionals in their area to build and compete with a huge robot in tasks identified by FIRST. Each team has 6 weeks to design, build and tests their robots before they head out to competitions around the world.

FIRST Robotics Competition Team 2470 was founded in 2008 by Eric Sufka, Physical Science teacher at Jefferson High School in Bloomington, Minnesota. The team has primarily been mentored by General Dynamics – Advanced Information Systems since its inception. The team has consistently had around 25 members on the team every year with the number of mentors varying.

Today, the team consists of 23 hard working students along with two mentors, one an alum of the team and college student and the other a local parent. The team also has one team “coach” who works within the school district, enforcing policies and organizing team trips.

STRATEGIC PLANNING PROCESS / SWOT ANALYSIS

Strengths

- Computers
- CAD Labs
- Wood Shop
- Metal Shop

Weaknesses

- Lack of Mentors
- Dedicated Students

Opportunities

- New Sponsors
- New Mentors
- Science Olympiad Partnership

Threats

- School District
- Loss of Sponsors
- Loss of Students

TEAM IMPACT

Throughout the years, the team has sent 40 students off to college, 10 of which have now graduated with STEM degrees and started their careers. We've given speeches at the City Council, Bloomington Heritage Days, School Board Meetings, the Minnesota State Fair and the Bloomington Summer Fete. Over the years we have impacted over 100,000 people at all of the events we attend. We are slowly attaining our goal of celebrating STEM heroes as we do sports heroes.

TEAM BUDGET

Team Expenditure & Income:

Each year Team 2470 works with multiple sponsors and machine shops to cover many of its expenses. Below is an overview of team expenditures and income.

Team Budget:

Income:	Cost
Sponsors	\$20,000.00
Other Fundraising	\$1,000.00
Student Fees	\$2,500.00
Total:	\$23,500.00

Expenditure:	Cost
FIRST Registration	\$5,000.00
Field Pieces	\$1,000.00
Robot Expenses	\$1,000.00
Second Regional	\$4,000.00
Infrastructure (Power tools, storage space)	\$10,000.00
Off-Season Event Registration	\$1,000.00
Total:	\$22,000.00

Needed In-Kind Donations & Mentors:

In-kind Donations:			
Items:	Number Needed	Single-Item Cost	Final Cost
FTC in Bloomington	4	\$1000	\$4,000.00
Team Trailer	1	\$3,000	\$3,000.00
Robot Material Cost	2	\$4,000	\$8,000.00
Large Rolling Tool Box	1	\$1,000	\$1,000.00
Pit Banners & Sponsor Banners	1	\$1,000	\$1,000.00
Build Season Food	6	\$200	\$1,200.00
		Total:	\$19,700.00
Mentors	∞		Priceless

Needed Mentors

Mentor Roles	Role Description
<i>CAD</i>	Teach students on the team how to CAD
<i>Marketing</i>	Assist with team marketing and creating a team business plan
<i>Travel Logistics</i>	Organize the team travel to regional events outside of the Twin Cities
<i>Prototyping</i>	Assist with the design of the robot and tech the students how to create basic prototypes
<i>Writing</i>	Assist the Marketing and Award Sub-Teams with team award submissions
<i>Electrical</i>	Show students how to wire, organize an electrical board, and update and check the robot
<i>Finance</i>	Help students manage team funds and assist with fundraising
<i>Programming</i>	Work with the students to program the robot for competition
<i>Graphic Design</i>	Create banners, logos, team handouts, and T-shirts for competitions
<i>Public Speaking</i>	Teach the students how to speak in front of potential sponsors and judges
<i>Engineering Design</i>	Work with the team to pick a strategy, design a robot, and manage robot creation
<i>Mechanical</i>	Help the students build a robot for competition in March
<i>Social Media</i>	Work with students to set up and manage social media sites
<i>Website</i>	Teach students how to build and manage a website

SPONSOR BENEFIT INFORMATION



Sponsorship Levels



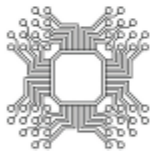
- \$10-\$99
 - Business name on webpage
 - Thank-you letter at the end of the season



- \$100-\$499
 - Business name on t-shirts
 - Business logo on webpage
 - Thank-you letter at the end of the season



- \$500-\$999
 - Business logo on t-shirts
 - Business logo on webpage
 - Business name on robot
 - Business name in pit
 - Thank-you letter at the end of the season



- \$1000-\$2499
 - Large Business Logo on t-shirts
 - Business logo on webpage
 - Business logo on robot
 - Business name in pit
 - One team shirt
 - Thank-you letter and gift at the end of the season



- \$2500-\$4999
 - Large Business Logo on t-shirts
 - Business logo on webpage
 - Large Business logo on robot
 - Business logo in pit
 - Three team shirts
 - Thank-you letter and gift at the end of the season



- \$5000+
 - Large Business Logo on t-shirts
 - Large Business logo on webpage
 - Large Business logo on robot
 - Large Business logo in pit
 - Three team shirts
 - Thank-you letter and gift at the end of the season

TEAM FUNDRAISING

Example Team Fundraising:

Current Team Fundraisers:

Eden Prairie Clean-Up Day

Every summer FRC Team #2470, The Blitz Team, partners with the city of Eden Prairie to serve free hot dogs and drinks to volunteers and participants in the Clean-Up day. The city provides everything for us and we bring the entertainment! Robots shoot off t-shirts, kids drive the robots and adults ask our students robot questions. It is a great outreach event and fundraiser for the team, all while doing our best to keep the environment clean.

This year we raised \$700 at the fundraiser, the event did not cost us a dime.

We need 5 students and 5 parents to run the event.

WHY IS YOUR TEAM UNIQUE?

Our team is one of the most unique, quirky, pink wearing teams in the state, hardly a day goes by where we are not trying to increase the reach of STEM in our community.

TEAM CONTACT INFORMATION

Website: www.team2470.org

Team Email:

Main Contacts:

Mentor Name:

Title:

Email:

Team Meeting Information:

Sponsorship Information:

Checks should be made payable to:

Give checks to your student contact, or mail to: