

**Team 2408**  
**Shrapnel Sergeants**

**Hazelwood West Robotics**



## Team Overview

We are FIRST Robotics Team 2408, the Shrapnel Sergeants, based out of Hazelwood West High School in Hazelwood, Missouri. We are a student-led group of adults and students committed to the promotion of science, technology, engineering, and math, or STEM concepts in our local community. Under the guidance of real-world engineers as adult mentors, our team constructs complex competition robots of various sizes. A multitude of skills essential to a career in engineering is utilized, such as the design process, programming under Java and LABView, documentation, public relations, and even business & management.

The mission of the Shrapnel Sergeants is to broaden young people's understanding of science, technology, mathematics, and engineering concepts, as well as introduce them to potential career paths in related fields. The team provides opportunities for students to develop team-building and leadership skills.

What is FIRST?

*FIRST*, which abbreviates "For Inspiration and Recognition of Science & Technology," is a global program with the motive of inspiring the youth of the world to pursue future careers in science and technology. This is achieved through engaging students in exciting mentor-based programs that build STEM (Science, Technology, Engineering, & Math) skills, as well as foster well-rounded life capabilities including self-confidence, communication, and leadership.

Team 2408 participates in two FIRST programs: the FIRST Tech Challenge, or FTC, and the FIRST Robotics Competition, or FRC. FTC begins in the fall and teams compete in the following winter, and FRC begins shortly after New Year's Day and competes in the following spring.

For more information about these programs, visit the FIRST website at: <https://www.firstinspires.org/>

## Awards and Recognitions

Below is a list of our awards as of the 2019-2020 season.

### FIRST TECH CHALLENGE AWARDS

Season	Award	Event	Location
2009-2010	Winning Alliance	St. Louis Qualifier	St. Louis, MO
2009-2010	Winning Alliance	Southeast MO Qualifier	Cape Girardeau, MO
2009-2010	<i>Participated in FIRST World Championship</i>		
2010-2011	Think Award	St. Louis Qualifier	St. Louis, MO
2010-2011	Inspire Award	Missouri State Championship	Rolla, MO
2010-2011	<i>Participated in FIRST World Championship</i>		
2012-2013	Think Award	St. Louis Qualifier	St. Louis, MO
2012-2013	Winning Alliance (Red Division)	Southeast MO Qualifier	Cape Girardeau, MO
2012-2013	Finalist Alliance	Southeast MO Qualifier	Cape Girardeau, MO
2014-2015	FTC Dean's List Award Finalist (Mashroor Rashid)	Missouri State Championship	Rolla, MO
2014-2015	FTC Dean's List Award Winner (Mashroor Rashid)	FIRST World Championship – Einstein Field	St. Louis, MO
2016-2017	Motivate Award	Florissant Valley Qualifier	Florissant, MO
2018-2019	FTC Dean's List Award Finalist (Meagan Murray)	Missouri State Championship	Rolla, MO

### FIRST ROBOTICS COMPETITION AWARDS

Season	Award	Event	Location
2010-2011	Gracious Professionalism Award	St. Louis Regional	St. Louis, MO
2012-2013	Winning Alliance	St. Louis Regional	St. Louis, MO
2012-2013	<i>Participated in FIRST World Championship</i>		
2013-2014	Gracious Professionalism Award	St. Louis Regional	St. Louis, MO
2013-2014	Woodie Flowers Award Finalist (Tom Wendel)	St. Louis Regional	St. Louis, MO
2014-2015	FRC Dean's List Award Finalist (Mashroor Rashid)	St. Louis Regional	St. Louis, MO
2015-2016	Woodie Flowers Award Finalist (Tom Wendel)	St. Louis Regional	St. Louis, MO

## Team Outreach

Our team's mission is to reach both within and outward to ensure that we can assist in benefiting our community in any way possible.

Most of our community service is done with the FIRST program or it participates themselves. We spend a majority of our time volunteering and giving demonstrations at FIRST Lego League (FLL) and FIRST Lego League Jr.(FLL Jr.) competitions. At these events, our members act as competition clerks, referees, emcee's, or assist in a general demonstration of one of our robots. We also actively work to open the opportunities that FIRST provides to more kids by creating FLL and FLL Jr. teams. Currently, we created/actively coach FLL Jr., now FLL team 6844 at Armstrong Elementary in our district. We also have been working with our district's local middle schools to revive their FLL teams and serve as mentors FRC team 5836, the Mechanical Mutts, as they work their way into the FIRST program.

In the summer, our team collaborates with the Drug Abuse Resistance Education (DARE) program to host a robotics summer camp. At this camp, members from our team lead the kids in demonstrations of our robots and teach them how to build and program through friendly competitions while promoting the benefits of being drug-free.

Our team is also very active in bettering our community. We have a strong relationship with the St. Louis Foodbank because of repackaging events and annual donations of nearly three-hundred pounds of canned goods. In addition, our team participates in stream clean-ups, holiday card donations to the Missouri Veterans homes, and tutoring sessions hosted by our team.

## Team Impact

Our team provides every single team participant an environment to grow and gain better social skills that they will use in their future. They've gained friendships and a place where they have belonging and comfort. They also acquire skills in STEM which will enable them for success in fields pertaining needed skills. It has also inspired members to enroll in more Project Lead the Way Classes and many members want to pursue degrees in computer science and engineering. Once our members graduate, one-hundred percent continue on to college or the military and of those who go onto college, 95 percent go into STEM-related fields.

Undoubtedly, our success would not be achievable without an abundance of support. Robotics teams require immense amounts of funding, and any contributions would be greatly appreciated. With your contributions, you will be funding the construction of our two competition robots, the registration for competitions, tools, machinery, and technology. The following pages contain all of our sponsorship levels to choose from as well as a copy of our budget from the previous year.

## Degrees of Sponsorship

In cases of donations of goods or services, alternative benefits may be arranged.

### **Diamond Sponsor - \$5000+**

- Robot: Logo size of your choosing on the FRC and FTC robot's chassis
- Banner: Logo size of your choosing displayed on the team banner
- Website: Logo displayed on the front page and logo and description on the sponsorship page
- Team shirts: Logo size of your choosing on the back of shirts (shirts are worn at competitions and all public events)
- Memorabilia: "Thank you" plaque and team shirt and/or jersey

### **Platinum Sponsor - \$1000 - \$4999**

- Robot: Medium-sized logo (approximately 4" x 6") on the FRC and FTC robot's chassis
- Banner: Medium-sized logo displayed on the team banner
- Website: Logo and description on the sponsorship page
- Team shirts: Medium-sized logo on the back of shirts (shirts are worn at competitions and all public events)
- Memorabilia: "Thank you" plaque and team shirt and/or jersey

### **Gold Sponsor - \$500 - \$999**

- Robot: Small logo (approximately 3" x 4") on the FRC and FTC robot's chassis
- Banner: Small logo displayed on the team banner
- Website: Logo and description on the sponsorship page
- Team shirts: Small logo on the back of shirts (shirts are worn at competitions and all public events)
- Memorabilia: "Thank you" plaque and team shirt and/or jersey

### **Silver Sponsor - \$100 - \$499**

- Robot: Business card-sized logo (approximately 2" x 3.5") on the FRC and FTC robot's chassis
- Banner: Business card sized logo displayed on the team banner
- Website: Logo and description on the sponsorship page
- Team shirts: A line of text on the back of shirts (shirts are worn at competitions and all public events)
- Memorabilia: "Thank you" card and team shirt

### **Bronze Sponsor - \$25 - \$99**

- Team shirts: A line of text on the back of shirts (shirts are worn at competitions and all public events)
- Memorabilia: "Thank you" card

Available to all Sponsors:

- Members of the team will give a complimentary presentation providing more information/interactive demonstration with robot.
- Invitation to the teams end of the year celebratory banquet

Once we have received your payment, you will receive an email within the following few weeks about what you/your organization would like on our shirt, robot, and banner.

## Team Budget from the 2019-2020 Season

Income	Amount
Carried over from the previous year	\$3,813.13
Student Membership fees	\$900.00
Sponsor Donations	\$3,530.00
In-Kind Donations to FIRST for registration	\$5,000.00
Merchandise Sales	\$576.00
<b>Total</b>	<b>\$13,819.13</b>

Expenditures	Amount
FIRST registration	\$5,500.00
Equipment and materials	\$4,619.67
Outreach / Community service	\$284.25
Various other costs	\$680.00
<b>Total</b>	<b>\$11,083.92</b>

## Team Contact Information

### **Main Contacts:**

Steve Schlarman

Faculty Sponsor

[sschlarman@hazelwoodschoools.org](mailto:sschlarman@hazelwoodschoools.org)

314-953-5800 ex 38203 (work)

314-479-8632 (cell)

Jonathan Gunasingham

Faculty Sponsor

[jgunasingham@hazelwoodschoools.org](mailto:jgunasingham@hazelwoodschoools.org)

314-953-5800 ex 37204 (work)

314-502-5328 (cell)

### **Team Meeting Information:**

Hazelwood West High School, First Floor STEM Lab

Every weekday from 2:30 - 4:30

### **Mailing Address:**

Hazelwood West Robotics

Attn: Steve Schlarman or Jonathan Gunasingham

1 Wildcat Lane

Hazelwood, MO 63042

In closing, we would like to thank you for your consideration. It would be an honor for you to work with us during our 2019-2020 competition season. Our mission is to train and equip students throughout our community with the knowledge and skills in STEM and in life to succeed and we feel that your contribution would greatly help us in that process.

If you have any questions or would like to make special arrangements in terms of contribution, feel free to contact us through the information listed on the previous page. We hope to hear from you soon!

Sincerely,

Shrapnel Sergeants  
Team 2408



Meagan Murray  
*Team President*

**Public Relations**



Cassius Henley  
*Chief Financial Officer*



Benjamin Mahurin  
*Chief Publicity Officer*



## SHRAPNEL SERGEANTS SPONSORSHIP FORM

Donor Company's Name: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Position at Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Sponsorship Amount: \$ \_\_\_\_\_

Sponsorship Level (please check one)

<input type="checkbox"/>	<i>Diamond</i>	\$5,000+
<input type="checkbox"/>	<i>Platinum</i>	\$1,000 - \$4,999
<input type="checkbox"/>	<i>Gold</i>	\$500 - \$999
<input type="checkbox"/>	<i>Silver</i>	\$100 - \$499
<input type="checkbox"/>	<i>Bronze</i>	\$25 - \$99

All checks should be made payable to: "Hazelwood West High School" writing "Team 2408 Sponsorship" in the memo.

Please mail checks with this form to the following address:

Hazelwood West High School  
Attn: Steven Schlarman  
1 Wildcat Lane  
Hazelwood, MO 63042

Signature: \_\_\_\_\_ Date: \_\_\_\_\_