

# The Robette Roundup

October 2022



Our mission is to inspire girls of all ages to incorporate STEM into their lives and to revolutionize the perception of women in STEM.

## Upcoming Events

### Vis Give Day

Tue. Oct 11th - [Donate!](#)

### MRI (mini competition)

Sat. Oct. 15th 7:00-5:30  
Roseville Area HS

### GRIP Training Workshop

Sat. Oct. 29th

### Community of Saints STEAM Club Visit

Tues Nov 1st

### LS/MS Vis STEAM Day

Sat. Nov. 5th 9:00-3:00

## Vis Give Day is today!

It's an annual, one-day event to raise funds for Visitation School.

The Robettes have our own giving button that ensures *donations go directly into our account* -

<https://www.therobettes.com/donate/>

We are looking for donors to support our team's **\$40,000/year budget** which covers:

- event registration fees to attend competition
- build season supplies to construct a new robot every year
- large equipment purchases to increase our capabilities
- travel expenses
- pit set-up & branding to promote ourselves at events
- outreach to young girls in STEM to further our mission
- bow supplies to share small bursts of pink with other teams
- summer camp supplies to recruit potential team members
- team bonding to foster our team culture & core values
- students' successes & accomplishments at every level

And much more!

Thank you for your support!  
Business Subteam

*A Special Thanks to our Sponsors:*

**3M**

**Boston  
Scientific**



**ptc**

**John & Vera  
Wolf**



*Visitation School*



Team Website: [www.therobettes.com](http://www.therobettes.com)

Team Email: [2177@therobettes.com](mailto:2177@therobettes.com)

Team Twitter: [@therobettes](https://twitter.com/therobettes)



## Kaposia Days

A bunch of the teams from the local Saint Paul Public School Hub spent a Sunday in June representing FIRST at the South Saint Paul town fair. We enjoyed spending time with some robot friends and interacting with SSP residents of all ages. Thanks FRC 4549 Iron Bulls for the invitation!

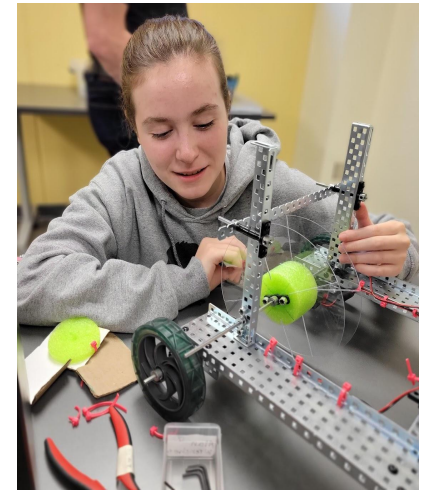
## MN State Fair

In August, you might have seen The Robettes presenting our robot at the Minnesota State Fair. For 10-days, our robot was displayed in the Education Building to the 1.8 million fair-goers. Our team spent the first Sunday of the fair giving demos where we explained the robot mechanisms and showed it in action. Despite a little rain, we pushed the robot in the daily afternoon parade. Bonus: we drank cricket smoothies and ate cheese curds!



## Summer Camp

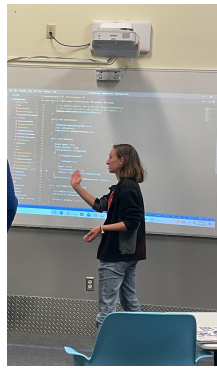
We welcomed a handful of potential recruits at our two week summer camp before school started. We switched things up and had the two teams of 3 students take on the Eggsellent Retrieval game the mentors created for us during COVID. Everyone had a blast - and families cheered us on during the final "competition" day including some judging!



*"Don't let anyone rob you of your imagination, your creativity, or your curiosity. It's your place in the world; it's your life. Go on and do all you can with it, and make it the life you want to live."*

*--Mae Jemison, first African American woman in Space*





## Shop Guests ^^

If you look closely at the photo above, you can spot two out-of-town guests who stopped by the build space to talk with us - Al & Dottie from FRC 111 Wildstang!

We spent an hour asking all sorts of questions about their 20+ year history in FIRST as mentors and volunteers. Both of them have such good stories - we learned about some crazy cool robots from the past that challenge us to think outside the box when we start strategizing & designing.

## Programming Update

The programming team has been hard at work training new members, tuning the shooter on the 2021 Rapid React robot, and improving vision shooting. New members report that learning how code makes the robot work has been their favorite part of programming so far. They have learned a lot about the control system, both the physical components and coding, including types of variables and *if* statements. The subteam has also been doing plenty of driving practice to prepare for MRI. The programmers also hope that the improvements made to shooter code will make it easy for everyone on the team to drive successfully at the mini competition.

## Mechanical Update

Over the summer, the mechanical team built a golf ball launcher with the idea to fundraise at a charity golf tournament. The launcher can shoot golf balls super far using air pressure - further than the average golfer can tee-off. The mechanical subteam has also been working hard with numerous other projects such as building a bench, prepping our robot for MRI (a fall practice competition), and training rookies in using tools and learning how to use OnShape, a CAD program, for the build season. The mechanical team is very excited to get to work on new projects and continue to learn about building and repairing.



## Women in STEM Highlight

Carolyn Bertozzi won the 2022 Nobel Prize in Chemistry for the development of click chemistry and bioorthogonal chemistry.

Chemists have long been researching about complicated molecules that contain medicinal properties, however, the molecules are impractical and very time consuming to produce. Carolyn and her team had successfully develop new click reactions that can live in living organisms without breaking the original chemistry of the cells. Her research on bioorthogonal reactions benefits the tracking of biological processes, exploring cells, and targeting cancer pharmaceuticals.

We're inspired!  
#SeeHerBeHer



## Student Spotlight: Business Subteam

THE BUSINESS TEAM IS BACK! The Robettes were operating without an official business team last year. With the awesome recruitment of the captains, we have found three dedicated new members! The team is glad to have their support with our grant applications, social media updates, and team promotion.

