

# The Robette Roundup

February 2023



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

**“Are you Smarter than Your 8th Grade Nun?”**

Feb. 11th at 2pm & 7pm

**Open House**

Sat Feb. 25th 10am - 2pm

**Lake Superior Regional**

at the DECC in Duluth, MN

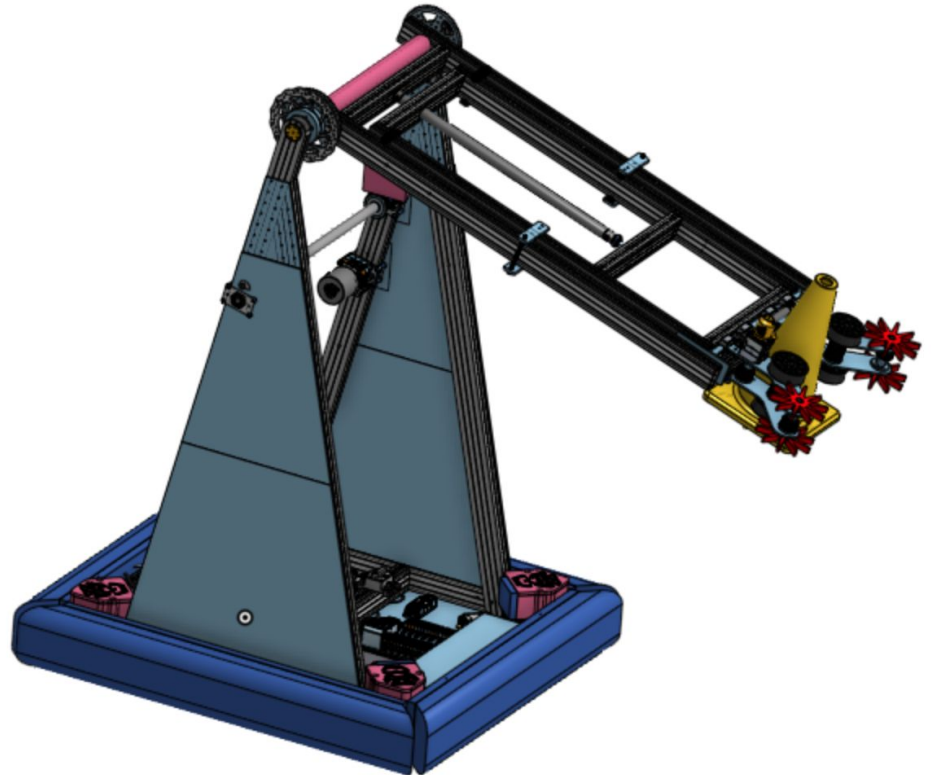
Mar. 2nd-4th

**Minnesota 10,000 Lakes Regional presented by Medtronic**

at Williams Arena in Minneapolis, MN

Mar. 30th-Apr. 1st

Come see us compete in Duluth or Minneapolis! Live-streaming will be available via [Twitch.tv/firstinspires](https://www.twitch.tv/firstinspires)



This is our recent design of the robot. The real robot is looking closer and closer to this picture every meeting. Notice the pink swerve covers - The Robettes love incorporating our branding into our robot design. Come see what it looks like in person at our upcoming events!

*A Special Thanks to our Sponsors:*

John & Vera  
Wolf



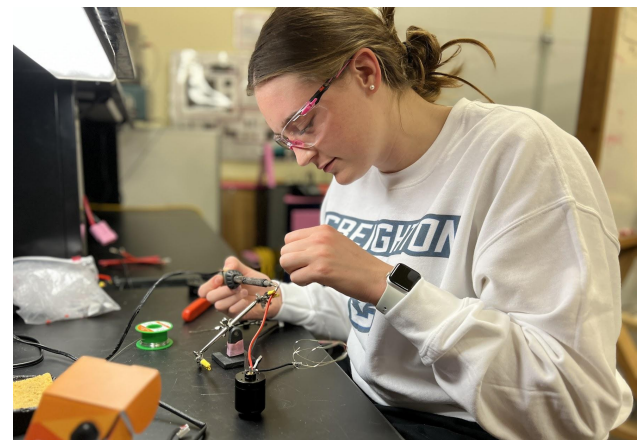
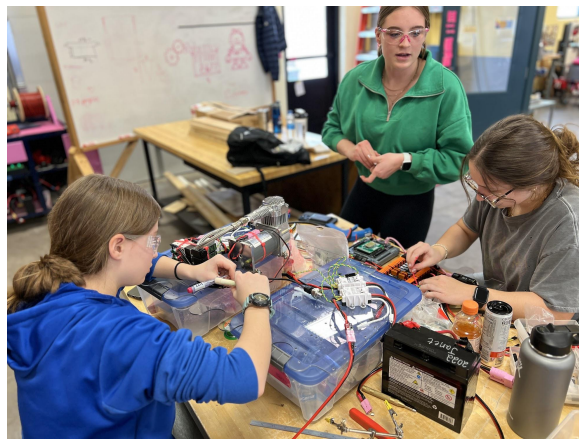
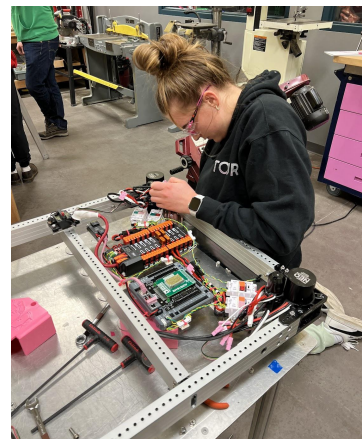
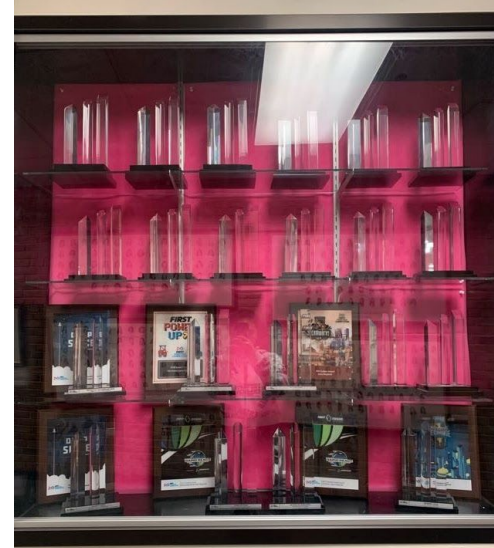
Team Website: [www.therobettes.com](http://www.therobettes.com)

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

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

## Business Subteam Update

We have a NEW TROPHY CASE! The business team worked very hard last Saturday to rearrange and clean the trophy case. The Robettes have won many prestigious awards that collected some dust during summer construction; it is time for us to put these awards in a new, clean home. We also designated an area to our FTC Micro Bows and FLL LEGO Blaze to display their accomplishments & awards. Everyone is invited to check out the trophy cases in person during Open House on Feb 25th!



## Electrical Subteam Update

The first half of the belly is finished, and we attached it to the robot. Wires got added to the other half and we completed all the soldering & connections for the various components! Now that both panels are mounted to the robot, we will focus on routing the wires safely & systematically to their motors & sensors.







## Mechanical Subteam Update

The robot is coming together! We constructed the drive chassis with the swerve modules, assembled the superstructure, and worked on the bumpers.

\*\*\*The most difficult part is the bumpers: learning how to sew, calculating the exact measurements required, and determining the correct order of sewing operations!

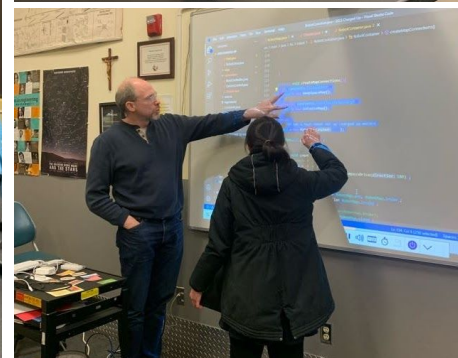
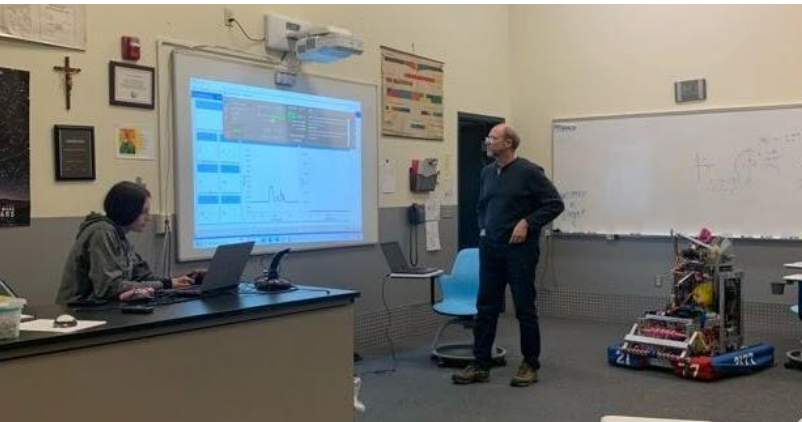
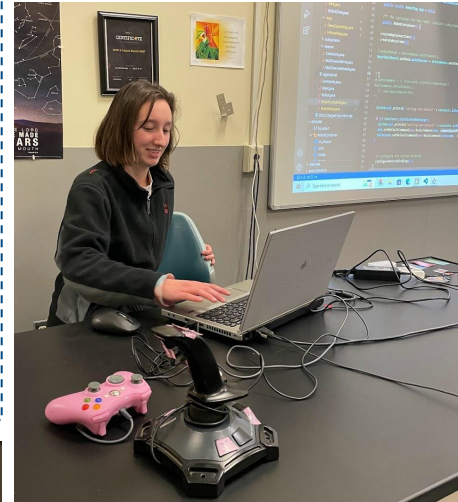
We are on track to have a working robot for our practice competition on Sat Feb 18th.



## Programming Subteam Update

We finished the field-based driving and tested it using a robot from a previous year. We converted a polar coordinate system to a Cartesian coordinate system in order to make field-orientated directions work for our swerve drive train. And we set programming limits to slow down the wheels if the robot was turning too fast.

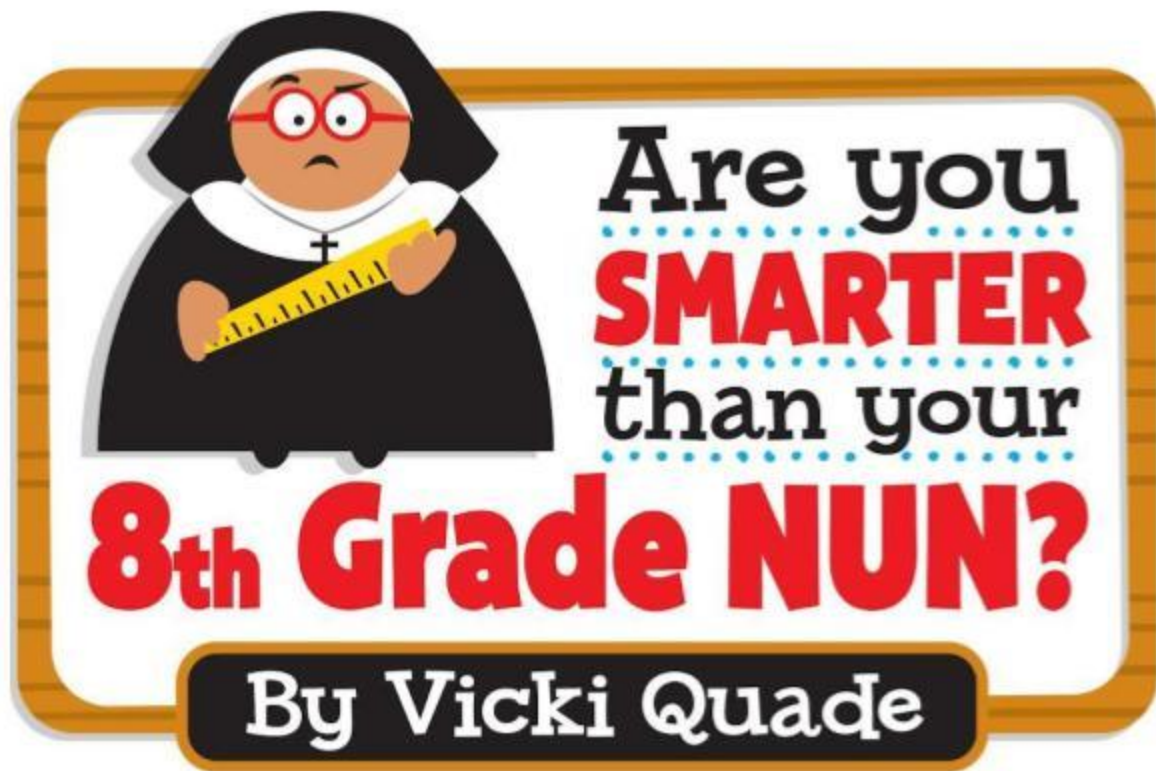
We also coded several options for autonomous driving at the beginning of each match.











An interactive comedy game show, where audience members compete to see who was paying attention and who was daydreaming in school. Contestants are quizzed on subjects like history, geography, arithmetic, science, civics, and a few more! Answer too many questions wrong, and you'll end up in Purgatory, where you have to answer a religious question to get out. Win a free pass to heaven or other prizes along the way!

**\$30**

Purchase tickets online at [therobettes.Ludus.com](http://therobettes.Ludus.com)  
limited quantity at the door



Saturday, February 11th  
2:00 pm  
7:00 pm



*Visitation School*

2455 Visitation Drive  
Mendota Heights, MN 55120



All proceeds go to support **Visitation School robotics teams**.  
The Robettes, The Micro Bows, and LEGO Blaze appreciate your support!