

The Robette Roundup

January 2022
Weeks 1-3 of Build Season



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

Open House

Come tour our work space to see our newly built robot on Sat. Feb. 26
10:00 am - 2:00 pm.

Northern Lights Regional

March 3-5, watch us compete for the first time this season in Duluth! Live stream will be available on Twitch.

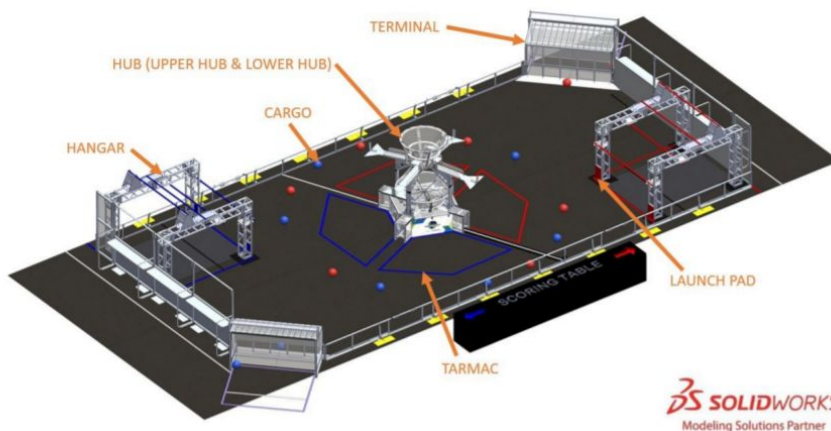
North Star Regional

April 7-9, join us in-person as we compete at 3M Arena at Mariucci in Minneapolis.

2022's Game: RAPID REACT

In RAPID REACTSM, FIRST teams explore the future of transportation. Two competing alliances are invited to process cargo for transportation. Each alliance processes cargo by retrieving and scoring it into the hub through either a 3ft or 9ft goal. During the first 15 seconds of the game, human players can load cargo into robots and attempt to throw cargo into the hub from within their terminals. In the final moments of each match, alliance robots race to engage with their hangar to traverse ascending monkey bars (the lowest level at 4ft & the highest at 7ft) and prepare for transport!

To learn more about how the game work check out the [2022 FIRST Robotics Competition INFINITE RECHARGE Game Animation](#). Or visit FIRST's website <https://www.firstinspires.org/robotics/frc>.



Team Website: www.therobettes.com

Team Email: 2177@therobettes.com

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



Student Spotlight: Megan Overall '23

Hi! I am a junior who just transferred to The Robettes in October. I LOVE Star Wars, superheroes, and robots. I make foam cosplay and build with Legos. I am a Life Scout in BSA (Boy Scouts of America) and was one of the first girls to join a troop! ~ Megan

Build Season Progress

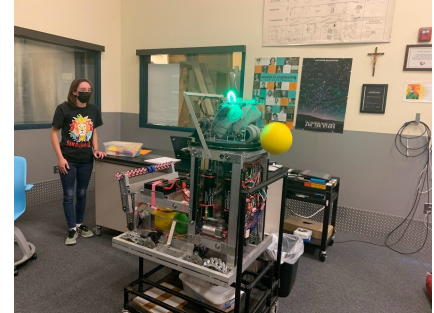
Our four sub-teams are hard at work building the robot and prepping for competition! Let's hear what they're working on currently, ...

Mechanical subteam: we are working with OnShape, an online collaborative CAD program, to model the robot. We are prototyping a one-wheeled, hooded shooter and assembling the robot's drive train base. We also are designing a 2nd level climber and a vectored intake/collection mechanism.

Programming subteam: we are using the 2020 robot to test new code. After reviewing Java basics, subteam members have progressed to adding subsystems and commands for the new conveyor, intake, intake arm and shooter, as well as setting up driving on the practice robot.

Electrical subteam: we are wiring the practice robot to allow programming to begin drivetrain code, as well as allow the team to use it for drive practice. We are using light sensors this year to detect if there are balls in the intake. This year, for the first time, we are experimenting with CAD to design the electrical board.

Business subteam: we are busy sourcing corporate sponsorships, planning for competitions and open house events, and developing marketing materials.



A Special Thanks to our Sponsors:

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