



The Regal Report

January 2022 Newsletter



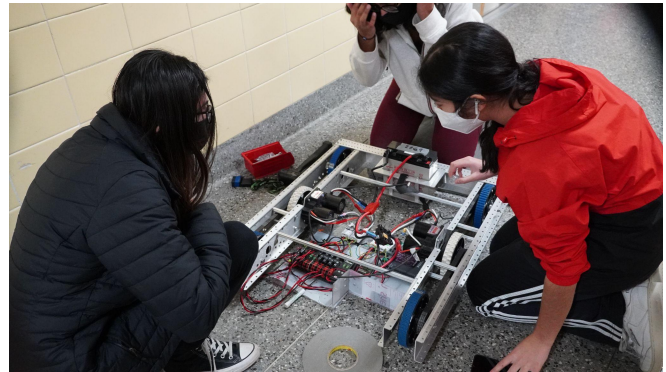
Upcoming Events

On March 6th, 2022, our team will host an event called “Regal Eagle Rampage.” Over 100 FRC members from Long Island come to our school to participate in the competitions to test the robot before the World Championships. The game field for our Regal Eagles Rampage is entirely made out of wood and is built by our carpentry team.

Build Season

This month was the beginning of Week 0 a.k.a. Build Season for all FRC teams. Our team watched the kickoff live stream for this year's game. After watching the livestream hosted by FIRST revealed this year's game theme, our team immediately got to work brainstorming ideas,

and reading the game manual to come up with the best gameplan. To check out in more detail what we've accomplished during build season, you can check out our [build blog!](#)



Marketing

Marketing has been working to collect advertisements for our Regal Eagle Rampage event. Some members of the marketing team have been working on the Chairman's, an award given to the team with the most outreach.

Additionally, this essay includes how our team has shown the effort to spread the message on FIRST and STEM to younger students in the elementary and middle schools.

Mechanical

The Mechanical team has been hard at work building our robot. The team has worked and finished the shooter, climber, and intake prototype. Intake is important for the robot to take in the cargo located around the field for our bot to score points for our team. The shooter then shoots the cargo into the goal located at the center of the field. The picture located above is of Mechanical team member Arsh working on the climber. The climber will help us score bonus points at the end of the round. Our robot will attempt to release a hook to latch onto a hangar. The mechanical team has assembled the chassis and has tested the driving on it.



Electrical

Electrical has soldered wires to the motors in order for our shooting prototype to work by making the wheels turn and compress the ball so it shoots. The motors also make the hook retract up and down to hand on the hangar during the game. The electrical team hooked up wires to the wheels of the chassis so we could drive it around and test it.



Programming

The programming team is using videos of the red and blue cargo for our robot's ai system and to distinguish which one is which during the competition. We also have a limelight for the robots vision so that retro reflective objects shine more brightly than others. For more detail for the limelight check out our [build blog!](#)

Carpentry

Carpentry has been grinding this build season. Mentors and students have finished cutting all the pieces and are ready for assembling the field for Rampage. The carpentry team is planning the layout and the position of where the field will be and look.

