

Team 2129 Ultraviolet

Southwest High School FIRST Robotics

Monthly Newsletter - Month of February 2021

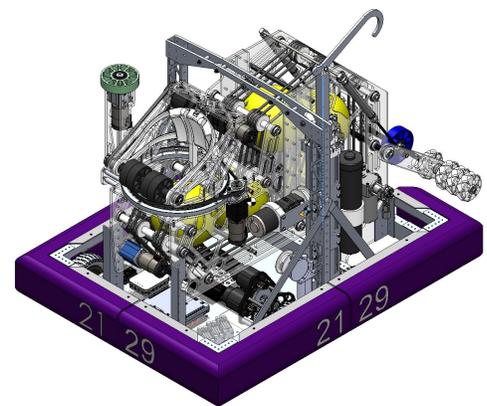
Written and designed by Cole K.



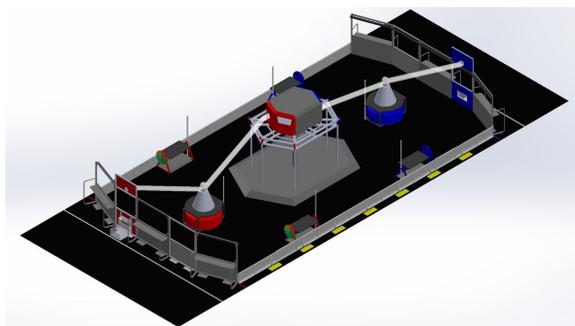
Competition is Upon Us!

After working on the game design challenge and CAD for the main robot, we are finally ready to submit and compete! This year, since we are doing all of the competition online, the challenges are a bit different from the normal in-person events. This year we are competing in the Robot Technical Awards and the Game Design Challenge.

To the right, you can see a picture of the CAD model we will be submitting for the Robot Technical awards, with many new updates to last year's robot. Some examples are the climbing mechanism, the throwing mechanism, and the ball transporter to accommodate the new thrower. We will be judged on the quality and complexity of our design, along with looks in general. The modifications we designed allow for easy implementation and updating when we return to the school.



The updated robot design.



The field layout for Renewable Resilience.

The other judged competition we have prepared for is the Game Design Challenge, with the final product shown on the left. The game we have designed is titled "Renewable Resilience", and is based around renewable energy such as solar and hydro power. For this event, we will be judged on creativity, complexity, and visual attractiveness. We will present both of these to judges in the upcoming weeks.

In other news, the mini robot has been completed! To the right you can see it in all of its glory, stuffed to the brim full of electronics. It is one of the smallest known robots that utilizes a full FRC control system. Its size and design allows it to be safely operated at team members' houses. It is now in the process of being distributed to team members for programming practice. That's all for this month! See you next time!

