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# Block Busters 17361

# Fun

An interesting feature we have on our robot are the wheels on the side. They help us move smoothly against the wall and square up to it. If your robot has a name or a funny story include it in the skit. Who made up the name fat man and skinny boy? Parts in the skit about what we did that was funny on the robot. Each person says what they think is a cool feature on the robot. Describe challenging parts that we faced on the robot design.

# Strategy

To figure out the missions we used almost a whole meeting sorting the missions into three categories; They were easy, medium, and hard. Most of the missions were placed in the easy category.

# Design Process

To find a robot design that would be successful, we built two robot designs. One of them was skinny and tall, the other one was short and fat; we named them Skinny Boy and Fat Man. We chose Fat Man because it was sturdy and there weren’t any places on the table where we needed a skinny robot. Over time we’ve made minor improvements.

# Mechanical Design

One of our robot’s attachments is the arm. It helps with a lot of missions. Because it is very hard to take off, we keep it on through all of our runs out of base. Over the course of the season our team has created four types of jigs. Each of them are essential for setting up accurately on the robot table.

# Programming

To make sure our robot is very accurate with its turns, we use the gyroscope for most of our turs in our programs. In our programs we use a lot of sensors in our programs. We use the gyroscope and light sensors.

# Innovation

A part of our robot that we are very proud of is the device we use to drop off the carbon in it’s bin. We like it because we use magnets to attach it to the robot. We also like it because to keep it still we have a stick that points in a gap in the arm so it stays still.

Changes

2 Ball Bearings not 1

Knobby wheels