Some Fixed/ Missed information from the Presentation portion of Project

Accuracy Data





Range Data



Updated Precision Data



Sensing component info

* The main sensing component for a color sensor is the photodiode
* Which is a light sensitive semiconductor diode that produces current when it absorbs protons
* They can also be built with lenses that limit the frequency of light allowed to contact the photodiode
* This allows the photodiode to only trigger for certain frequencies or colors of light
* In this case there are 4 photodiodes on the sensor which trigger for red, blue, green and white light respectively
* This allows us to break down the components of the light reflected from an object by the LED’s found on the sensor into these RGB values and determine the color of the object