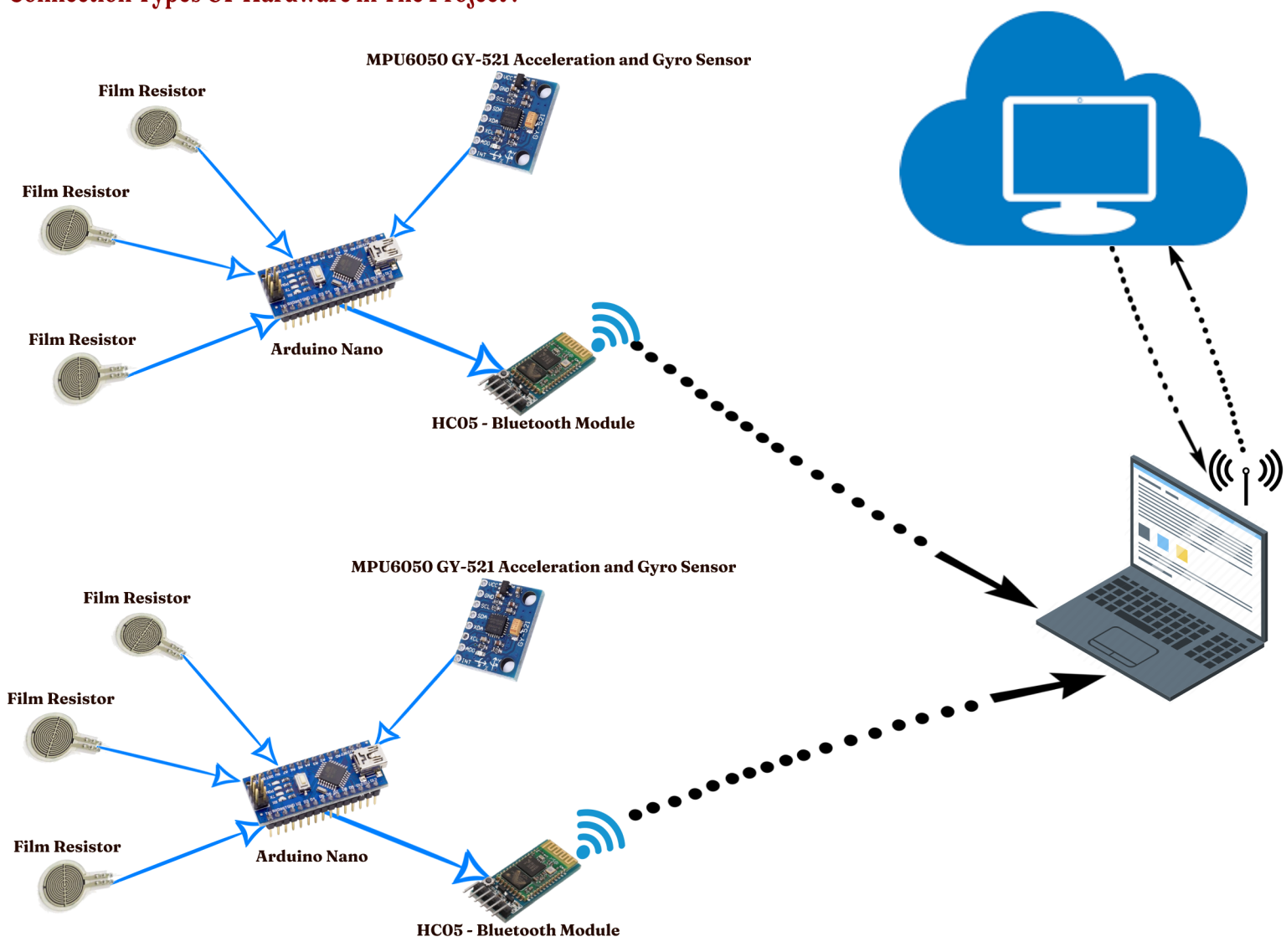
SENSOR NODE [HARDWARE]

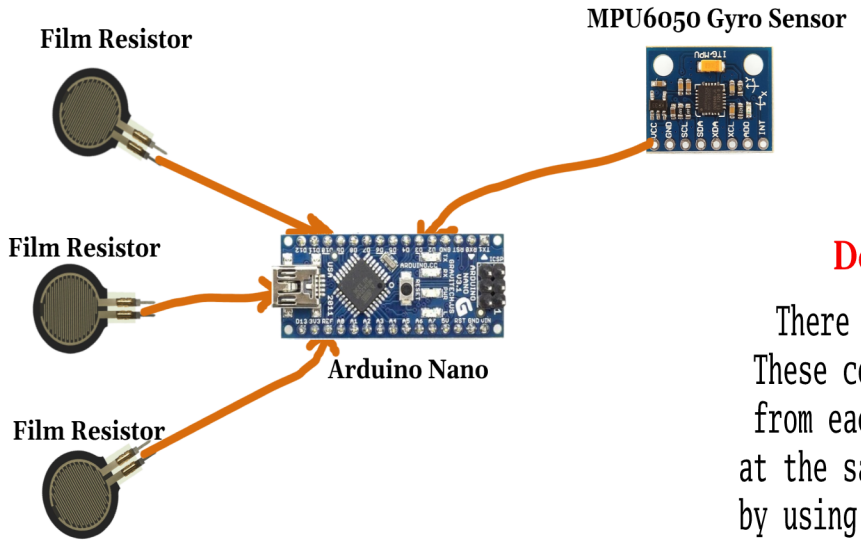
Connection Types OF Hardware in The Project :



Describtion:

Our connection type is star topology,
as each element of the hardware is connected directly to the "arduino nano" board with cables. On the other hand there are two this topologcies and these connect to a computer with bluetooth.

Combination of The Sensors in the Hardware :

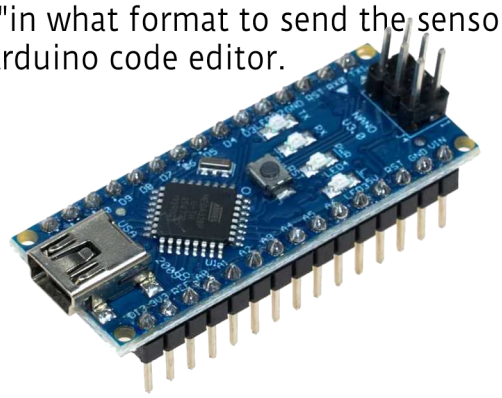


Describtion:

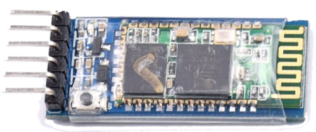
There ara three film resistors and one gyro sensor. These connect to ardunino nano and data is received from each sensor by the arduino nano card at the same time then data send to the computer by using bletooth module.

Combination of The Controller in the Hardware :

The controller is an arduino nano board in hardware. "How and where to get the sensor data" and "in what format to send the sensor data" are coded to the arduino board through the Arduino code editor.



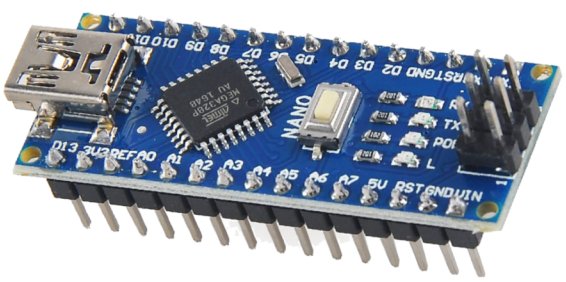
Combination of The Communication Module in The Hardware :

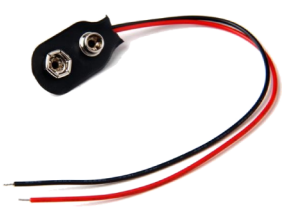


HC-05

In the project , the communicate module is HC-05 bluetooth module. The comunicate module get the sensor data come from ardunio nano and send the data to a computer with using bluetooth communicate.

Combination of The Power Source in The Hardware :





The power source we used in the project is a 9 volt battery.
The positive end of the battery is connected to the "VIN" pin of the arduino,
and the negative end of the battery is connected to the "GND" pin of the arduino.
So that, this gives power to the arduino and other hardware.