


# ARDUINO MINI PROJECT

BY

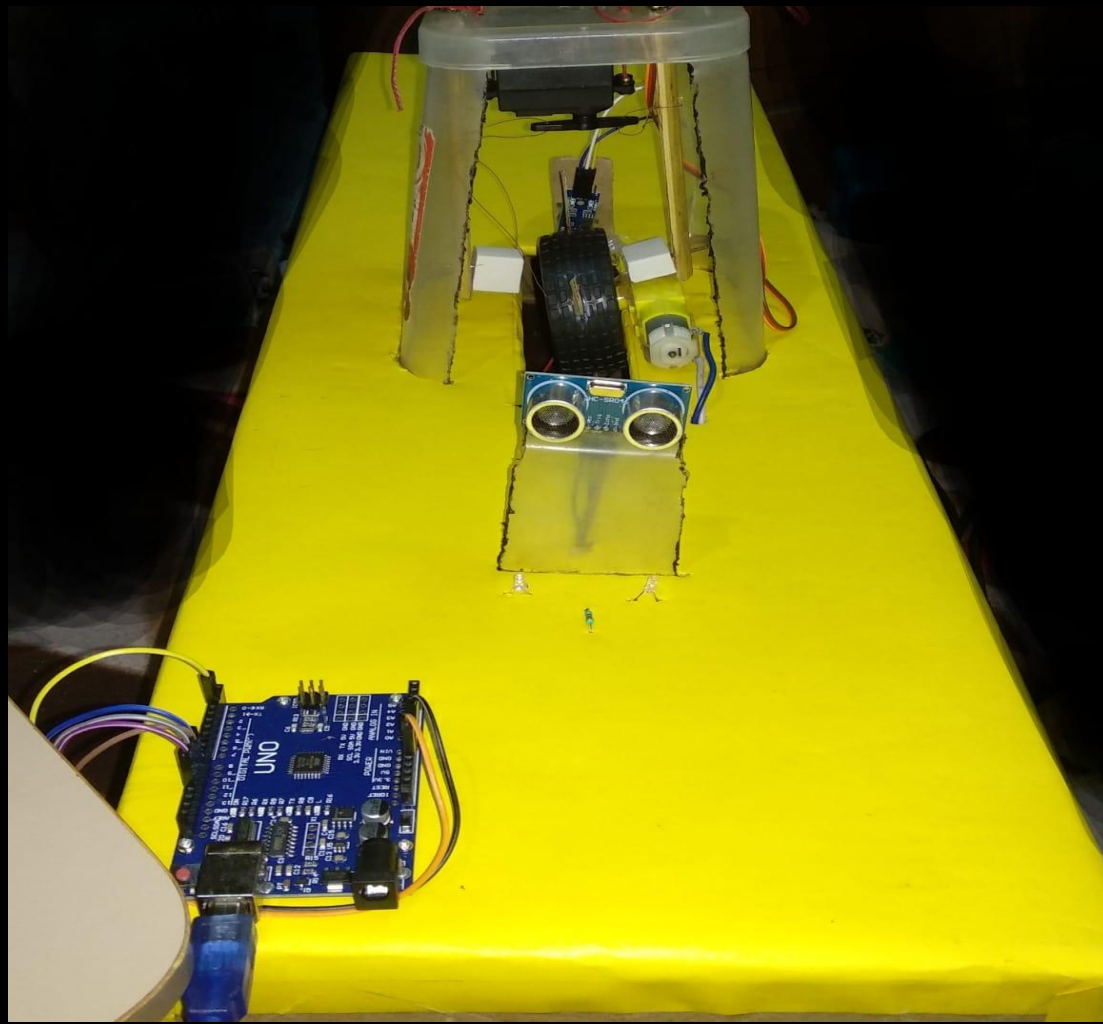
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TOPIC:  
AUTOMATIC BRAKE SYSTEM






It has been observed many times that people drive carelessly on roads in such a way that even if some object or person comes in front of their vehicle, they don't bother to apply brakes. So, I have come up with a solution to this problem using ARDUINO UNO.

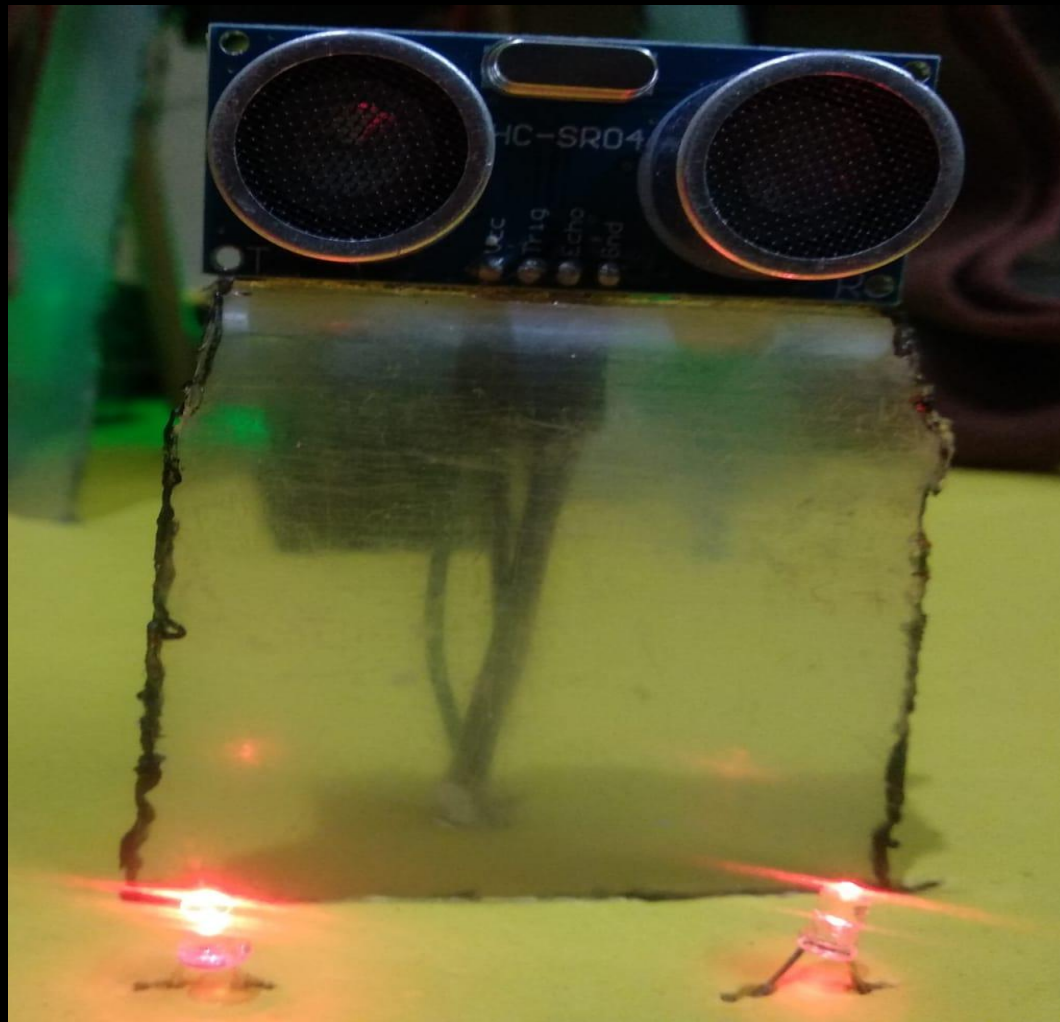






The driver will also be alerted when the brakes are applied in this case as LEDs will be turned on as an alarm.

The light intensities of LEDs will depend on the power of brakes applied at that point of situation.






**LET US UNDERSTAND  
HOW IT IS WORKING:-**








The wheel will move normally when there is no obstacle in front of it and its speed(in RPM), the distance of setup from the object and position of servo motor will be displayed on the Serial Monitor.

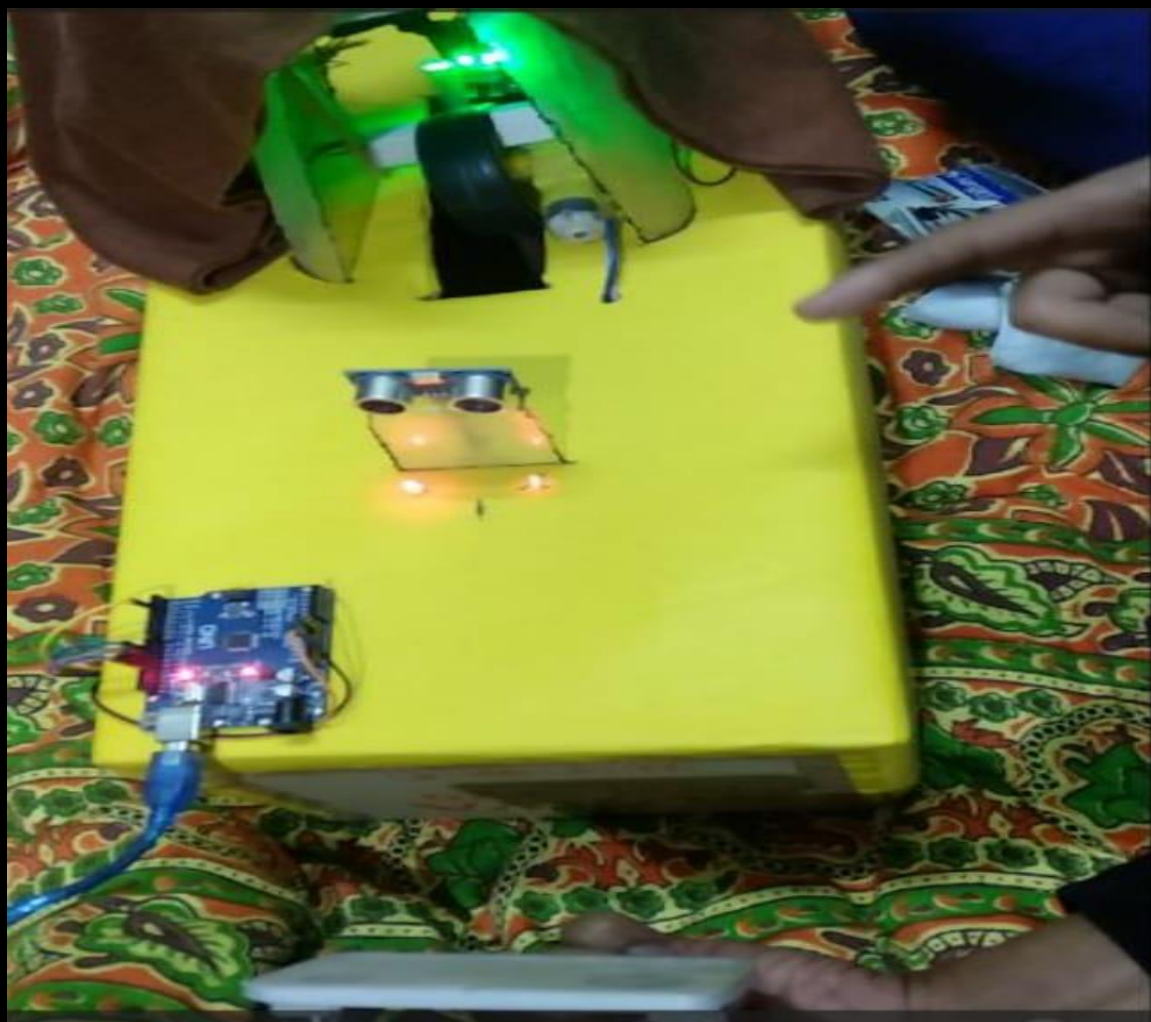




As soon as the distance of the obstacle from the object is less than 30 and greater than 20, the servo motor will move to the position of 125 degree resulting in application of brakes. Hence, it will lower the speed of the wheel. LEDs will also now be turned on(with less intensity) indicating that the brakes are applied by the system.





















THANK YOU