

DAY-06

Introduction & Overview to Ultrasonic Sensor

ULTRASONIC RANGING MODULE HC - SR04

NEXT: OVERVIEW & APPLICATION



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HC-SR04

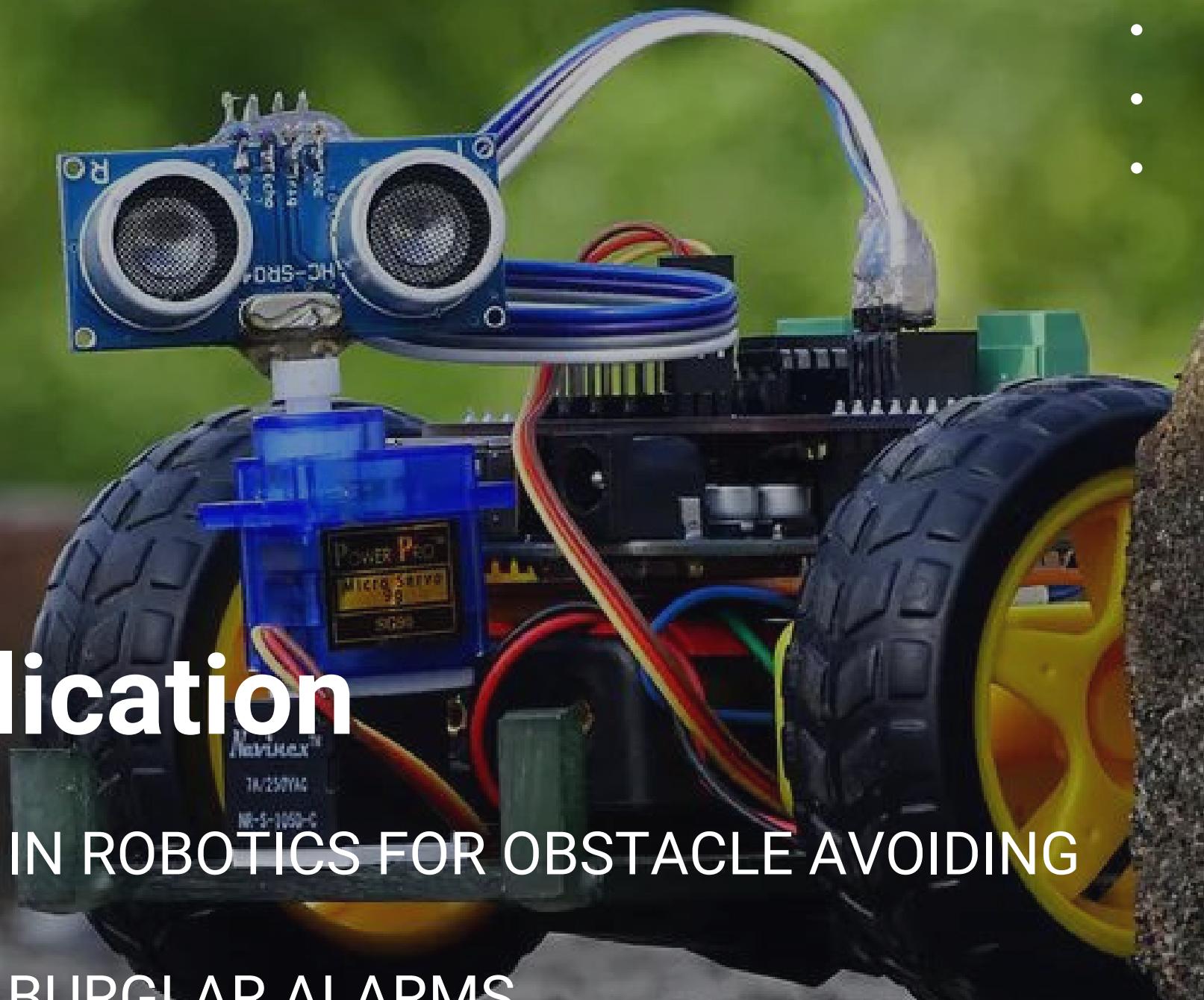
- CONVERTS  INTO ULTRASOUND
- ON RECEIVING ECHO, TURNS WAVE INTO 



NEXT: WORKING

Application

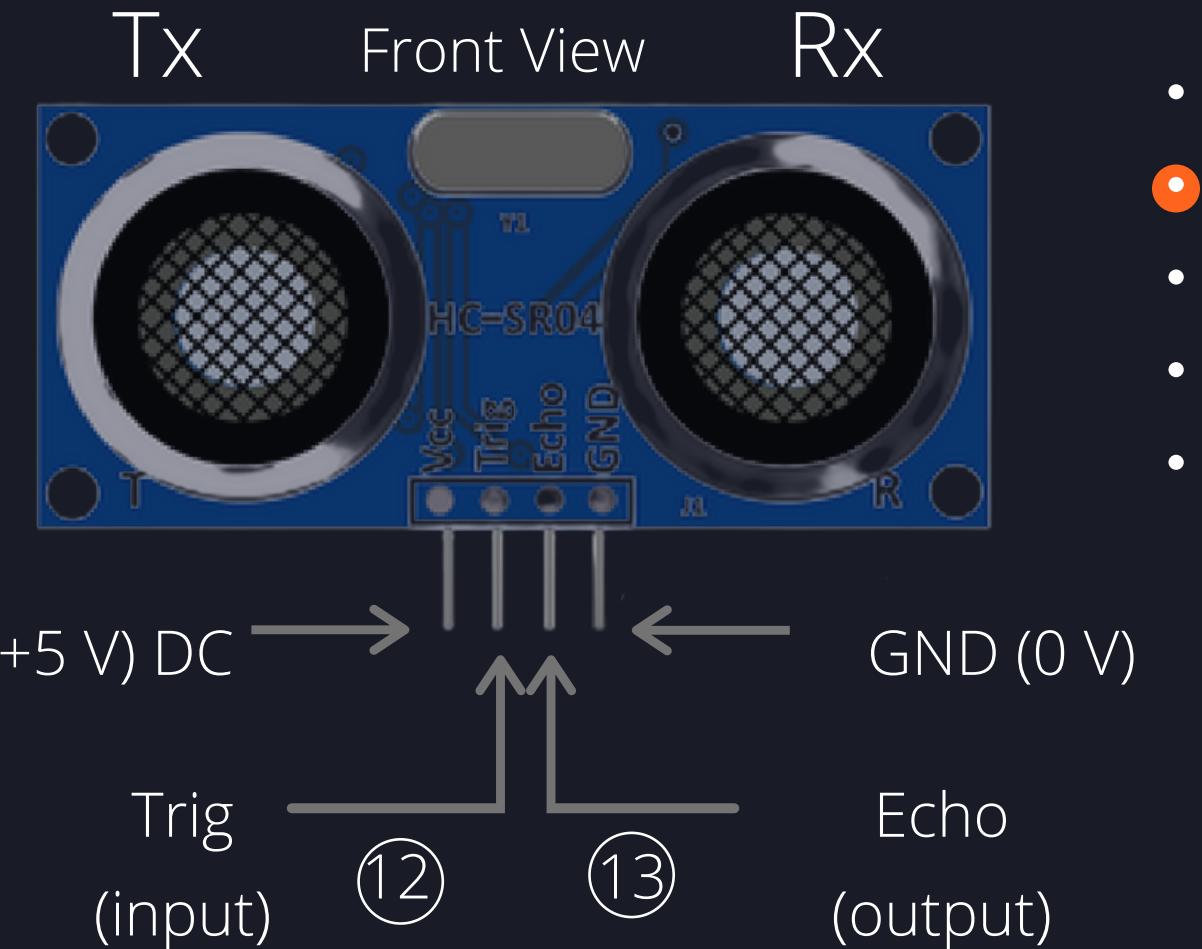
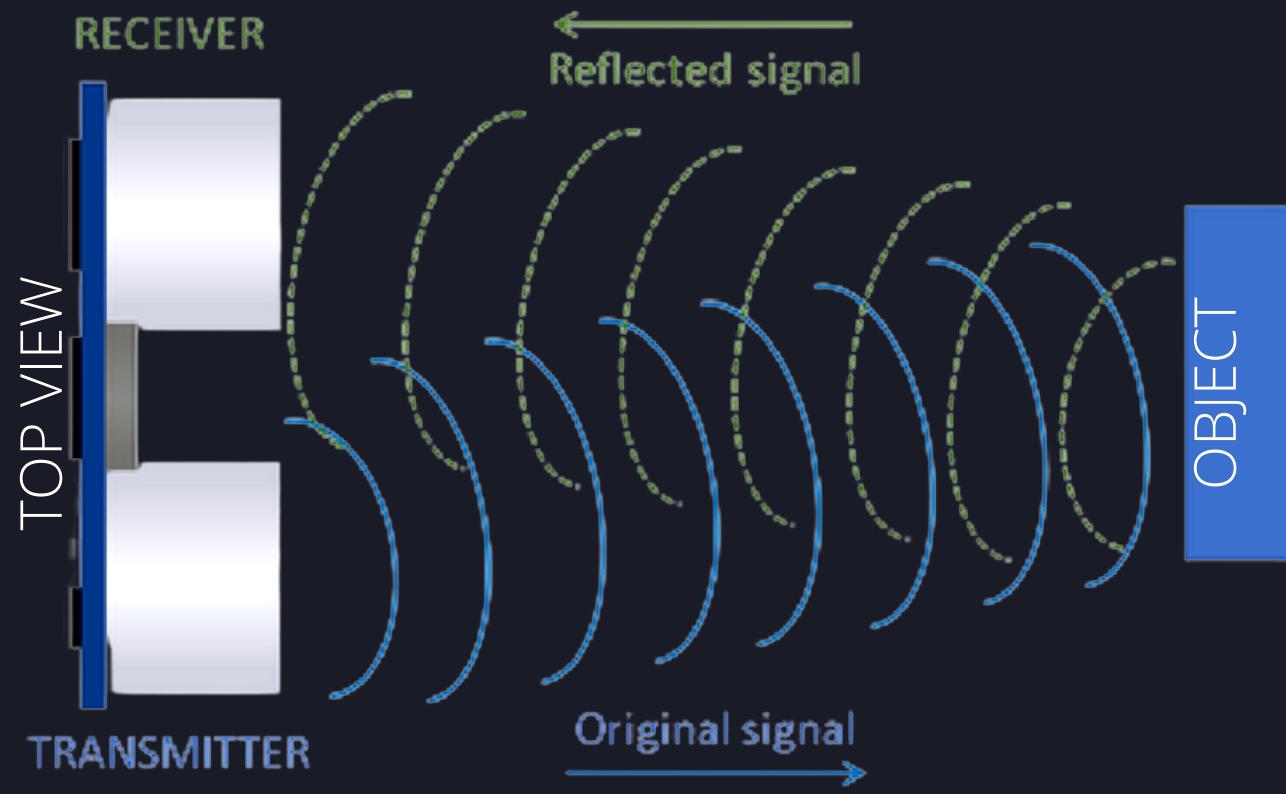
- IN ROBOTICS FOR OBSTACLE AVOIDING
- BURGLAR ALARMS
- NON DESTRUCTIVE TESTING, ETC



WORKING

Principle

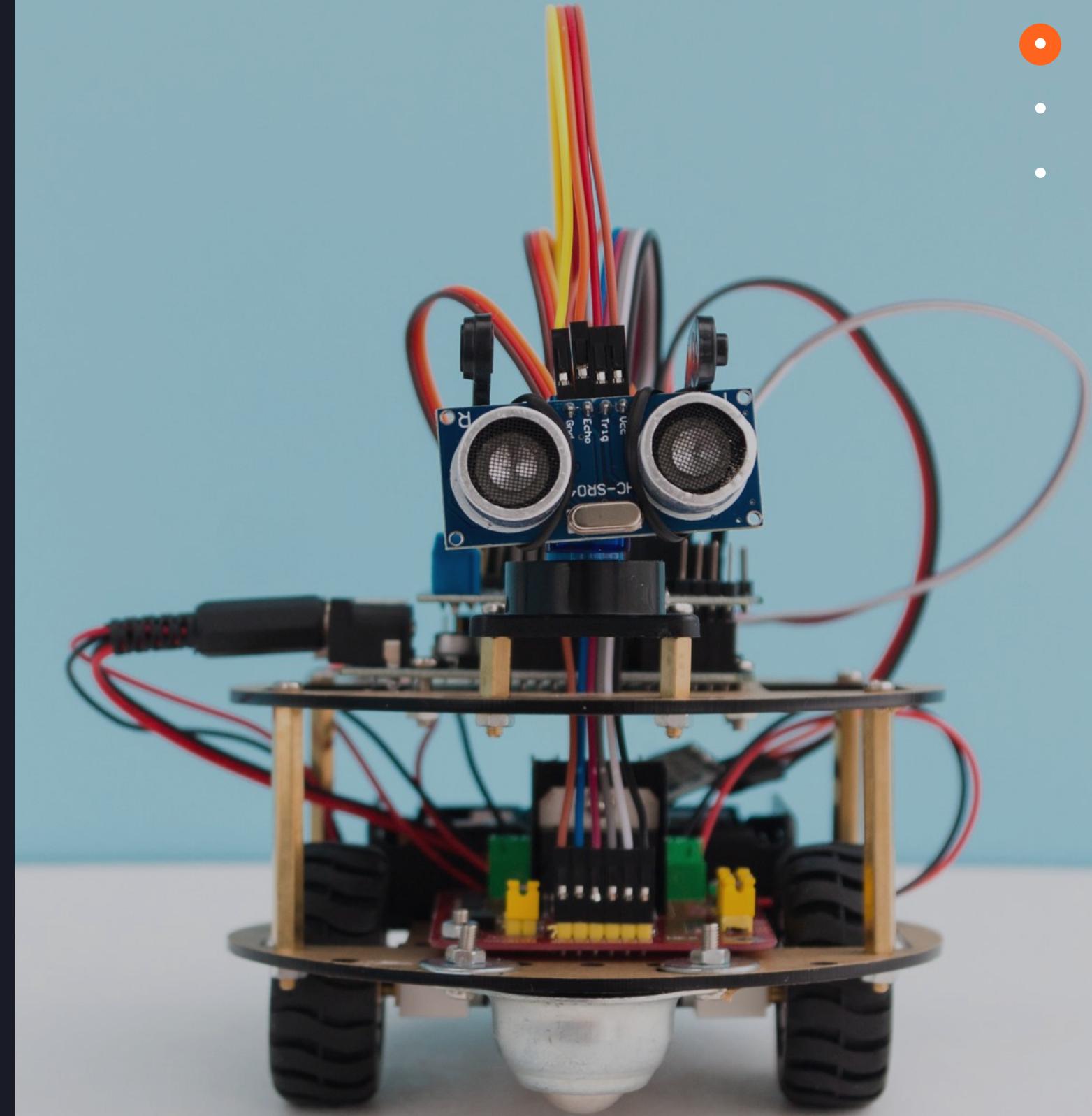
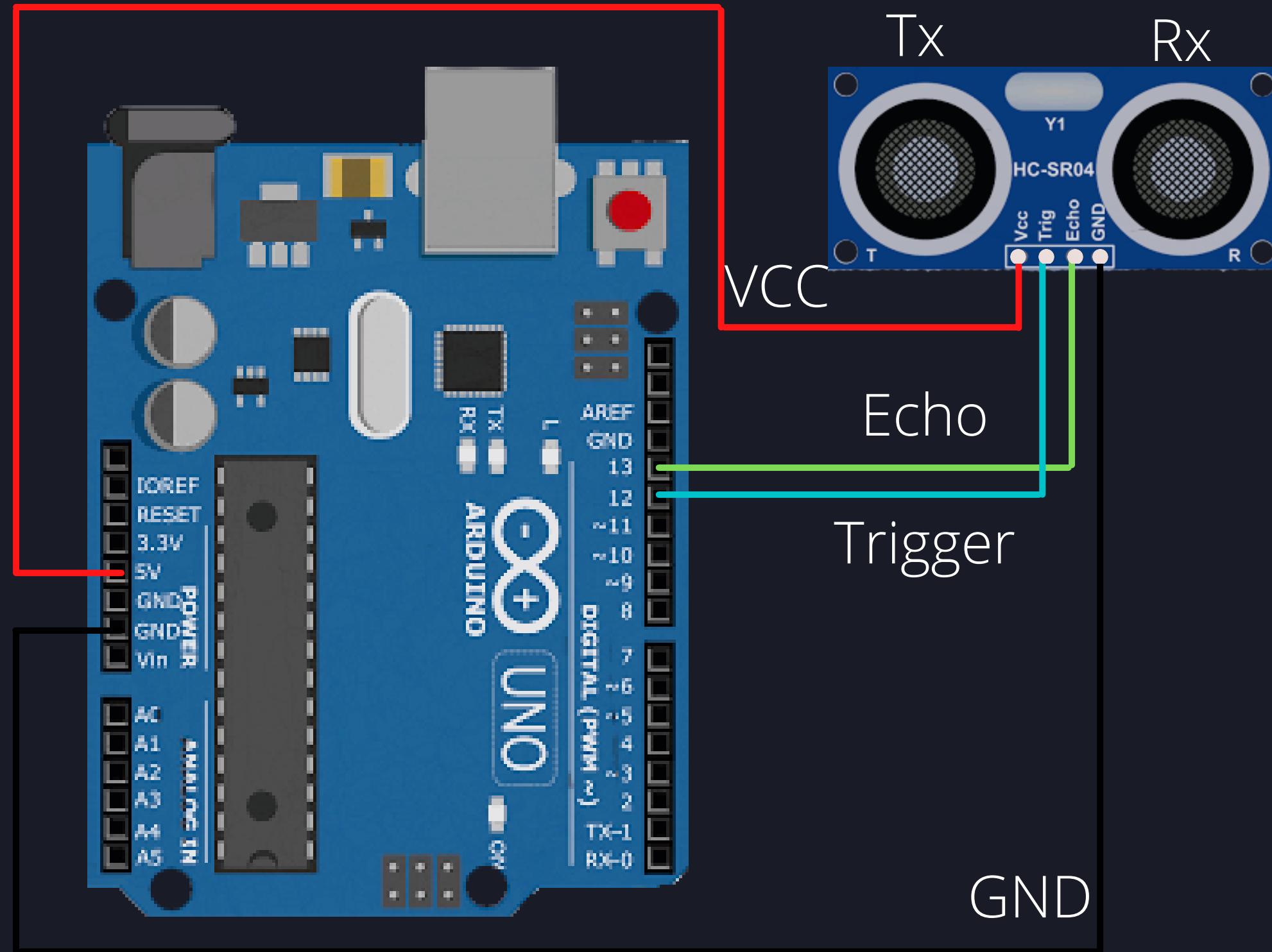
- A HIGH SIGNAL IS SENT TO TRIG(INPUT) PIN
- AUTOMATICALLY SENDS EIGHT 40KHZ RANGING SONIC BRUST
- TEST DISTANCE = TIME * VELOCITY (340 M/S) /2



Features

- 2CM-400CM NON CONTACT MEASUREMENT
- RANGING ACCURACY TO 3MM

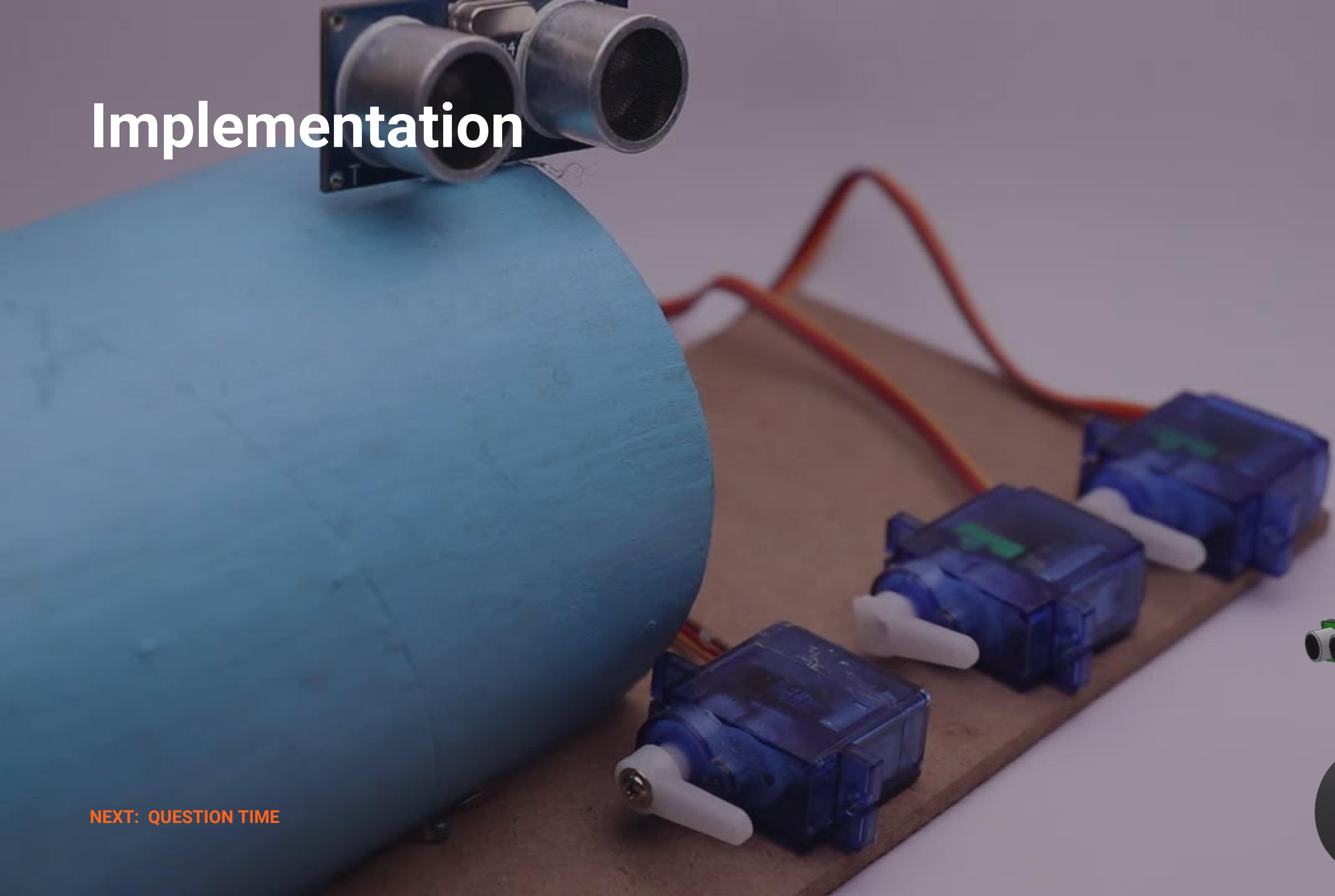
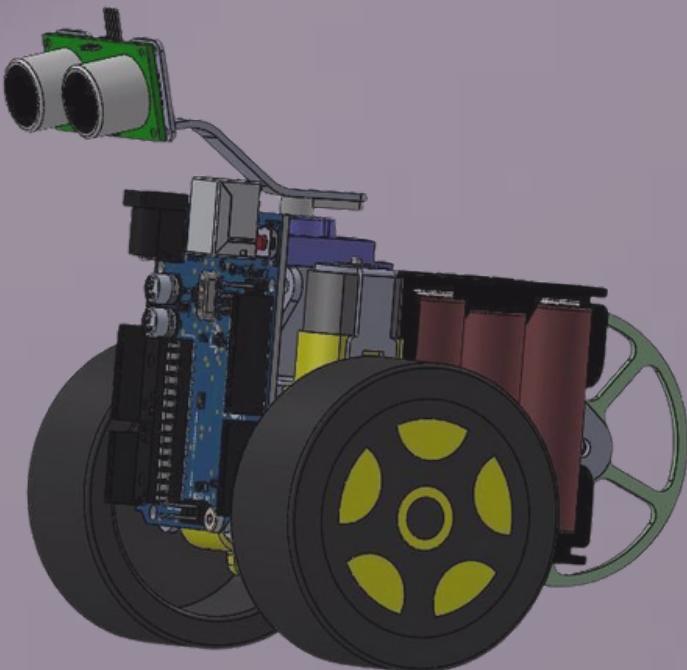
CONNECTION DIAGRAM



NEXT: IMPLEMENTATION

Implementation

NEXT: QUESTION TIME



Question Time

RAISE
YOUR
QUESTIONS

NEXT: MAKE YOUR BOT



Else, I'm gonna ask you!



SUSHANT SHAH



Thank You!



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Lets make Obstacle Avoiding Bot