



# CMR College of Engineering & Technology

(UGC Autonomous)

Kandlakoya , Medchal Road, Hyderabad 501401

## Centre for Engineering Education & Research (CEER)

### SMART VEHICLE HEIGHT ACCESSOR

#### PROJECT OBJECTIVE

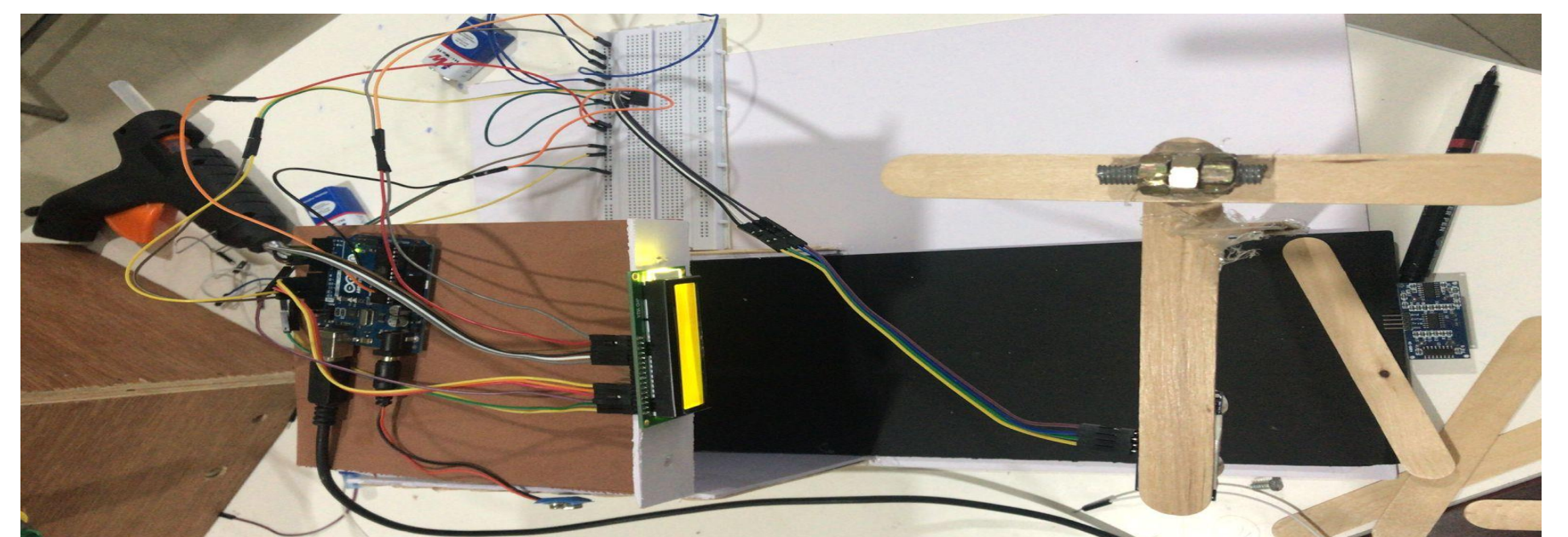
An Arduino based measuring system which takes the height as input and analyses and tell the vehicle can allow into a tunnel (road) or not.

#### EXISTING SOLUTIONS

- MEASURING TAPE
- CENTRE OF GRAVITY METHOD
- WHEEL HEIGHT MEASURING METHOD.

#### ISSUE

During recent years due to technological advancements many sophisticated techniques have been evolved for measuring the height of a vehicle without any calculations and it's safe to use technology to save lives of people and not to damage any public property.



#### Gaps in the existing system

- Human help is required.
- No accurate measurement is given.
- Time taking processes.

#### USER REQUIREMENT

- Arduino Uno
- LCD Display
- Jumper wires
- Bread board
- Ultrasonic Sensor
- LEDs and Resistors

#### TEAM DETAILS

##### TEAM 7:

21H51A6613 - M.SAI VARUN

21H51A6640- G. KIRAN PHANI KUMAR

21H51A6642- K.JAI SHANKAR

21H51A6645- MD AYESHA

21H51A6639- G.LAKSHMI LAHARI

##### FACULTY:

B.SURESH RAM(HEAD-CEER)

KAYYAM SATISH(Asst.Professor/MECH/CEER)

RAVI NAIK(Asst.Professor/CSM/CEER)

#### METHODOLOGY

A arduino based height assessor can assess a person's or any vehicle's height automatically without any errors and other calculations and also other manual work. Ultrasonic sensors are also used in robotic obstacle detection systems, as well as manufacturing technology. In comparison to infrared sensors in proximity sensing applications, ultrasonic sensors are not as susceptible to interference of smoke, gas, and other airborne particles (though the physical components are still affected by variables such as heat).

.LCD(liquid crystal display) is used to display the height of the person or any object on the screen after the calculations done internally.