

# Flood Detection System: An Arduino Robotics Project

*Better Safe Than Sorry*



## What Task Is It Built To Solve?

- To warn the public of nearby incoming floods.



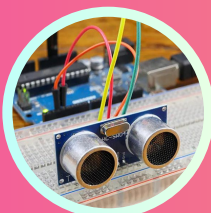
## How Does It Work?

1. First, the distance sensor receives analog data and sends it to the Arduino Board.
2. Second, the data is converted into the human-readable distance in inches.
3. Third, if the distance is within safe limits, then the distance will only be displayed on the LCD.
4. And fourth, if a flood has been detected, then the LED and Buzzer will repeatedly blink until the water level sinks to safe levels.

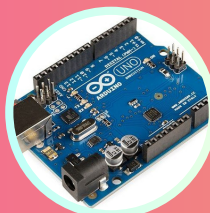
## What Makes It Work?

1. HCSR04 Ultrasonic Distance Sensor
2. Arduino UNO Board
3. 16x1 Liquid Crystal Display
4. Red LED
5. Buzzer

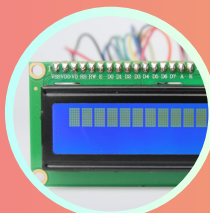
1.



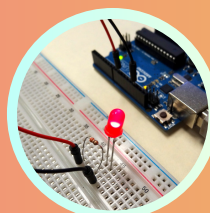
2.



3.



4.



5.



## Is It Waterproof?

- Yes\*. Please, don't even try :D