

# Water level monitoring

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# Abstract

The project demonstrates the working of Arduino with water level sensor. It indicates the level of water. This project uses the Arduino and other low components, making it efficient to monitor. Water level sensors are used to detect and measure the level of water by change in led.



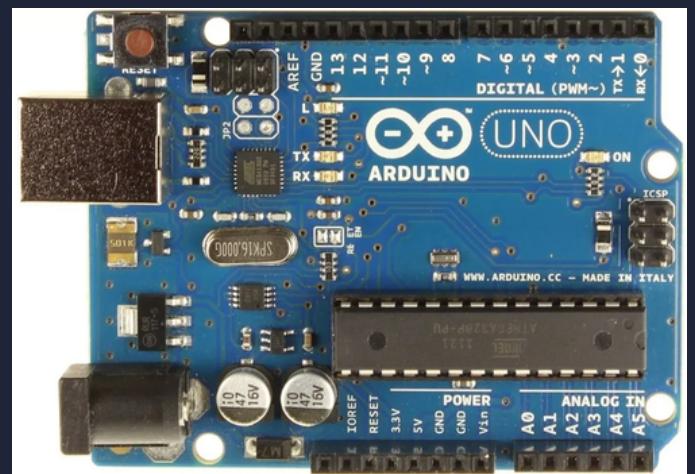
# Components of Hardware



Water level  
sensor



Jumper wires



Arduino UNO



LED

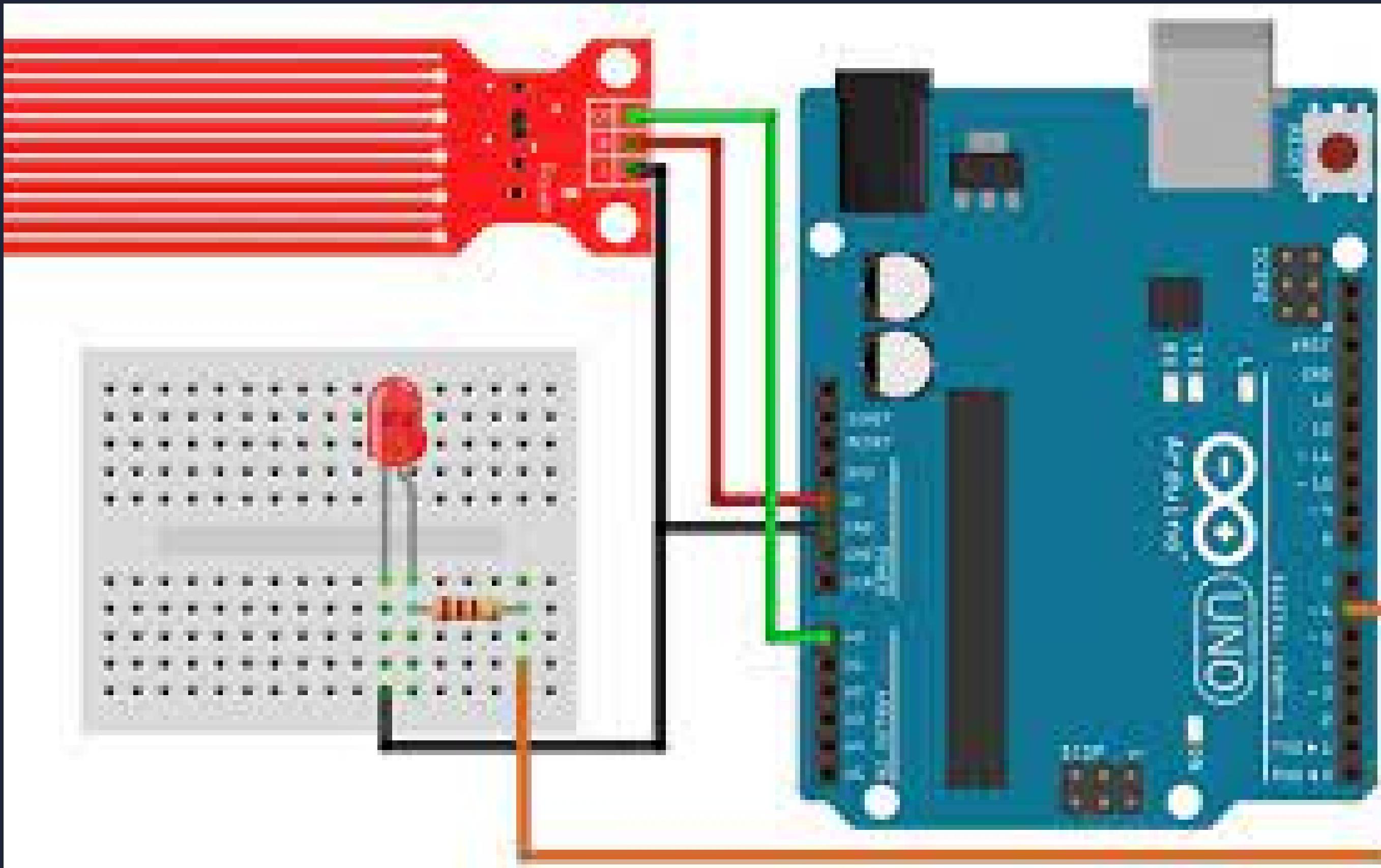
# Software Components

## Programming lanuages

- C programming
- Arduino ide



# Circuit diagram



# Design Principle

A photograph of a man with short brown hair and a beard, wearing a light blue t-shirt. He is seated at a desk, facing a computer monitor. His right hand is resting on a white computer mouse, and his left hand is on the keyboard. The monitor displays a dark interface with some text and icons. The background is slightly blurred, showing an office environment with other desks and equipment.

Water level is identified by led .Minimum value is set to 0 when water level is 0 led doesn't glow when water is sensed by the water level sensor there is a change in led.The more intense the led light indicates higher the levels of water

# Applications

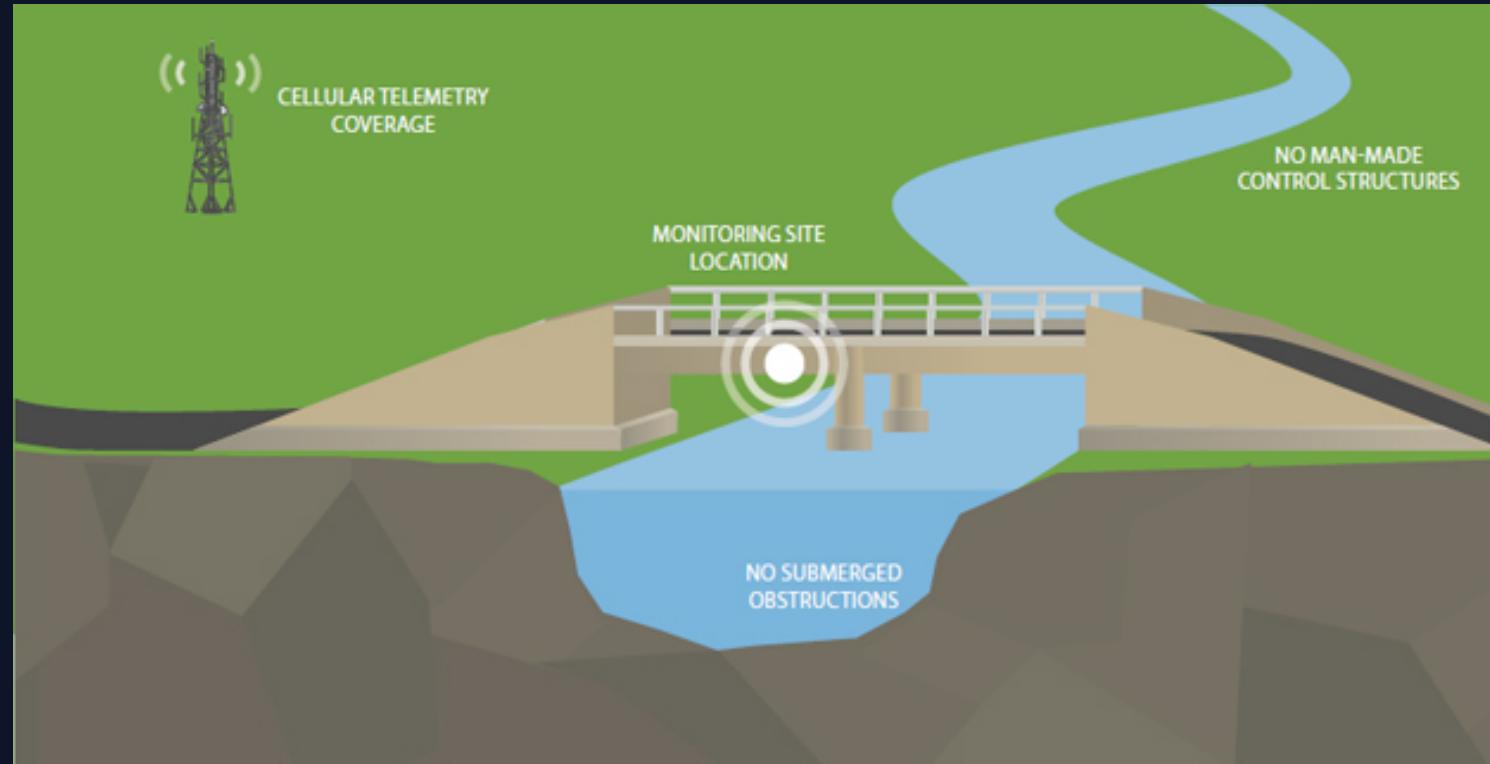
- Irrigation
- Flood monitoring
- Open Channel Flow
- Sea, Pond, Lake and River level data
- Manure Pit monitoring
- Wastewater level
- Tide and Wave measurements
- Towing tanks
- Water tank monitoring



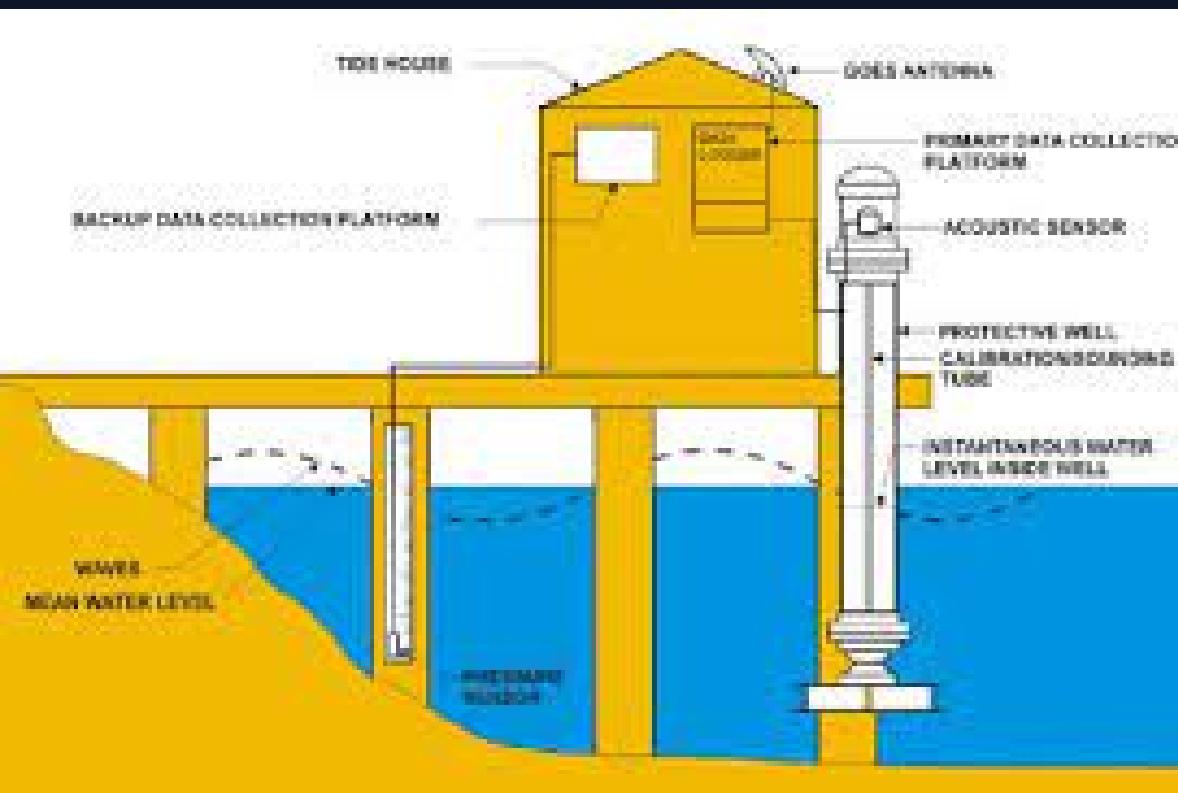
- Irrigation

A composite image showing a water tank monitoring system. On the left, a worker in an orange vest stands next to a large black water tank. In the center, a computer monitor displays a dashboard titled "SENSOR TO DASHBOARD - AS A SERVICE -" with a hexagonal icon labeled "ULTRASONIC". To the right, a smartphone shows a detailed water level reading of 500 mm and a map of a network of pipes.

- Water tank monitoring



- Flood level monitoring



- Tide and waves measuring

# References

1 <https://www.youtube.com/watch?v=AURxODjCcoo>

2 <https://senix.com/applications/water-monitoring/>

3 <https://robu.in/water-level-indicator-interfacing-with-arduino-connection-and-code/>



# Thank You