

# Smart Beehive Monitoring System

By:

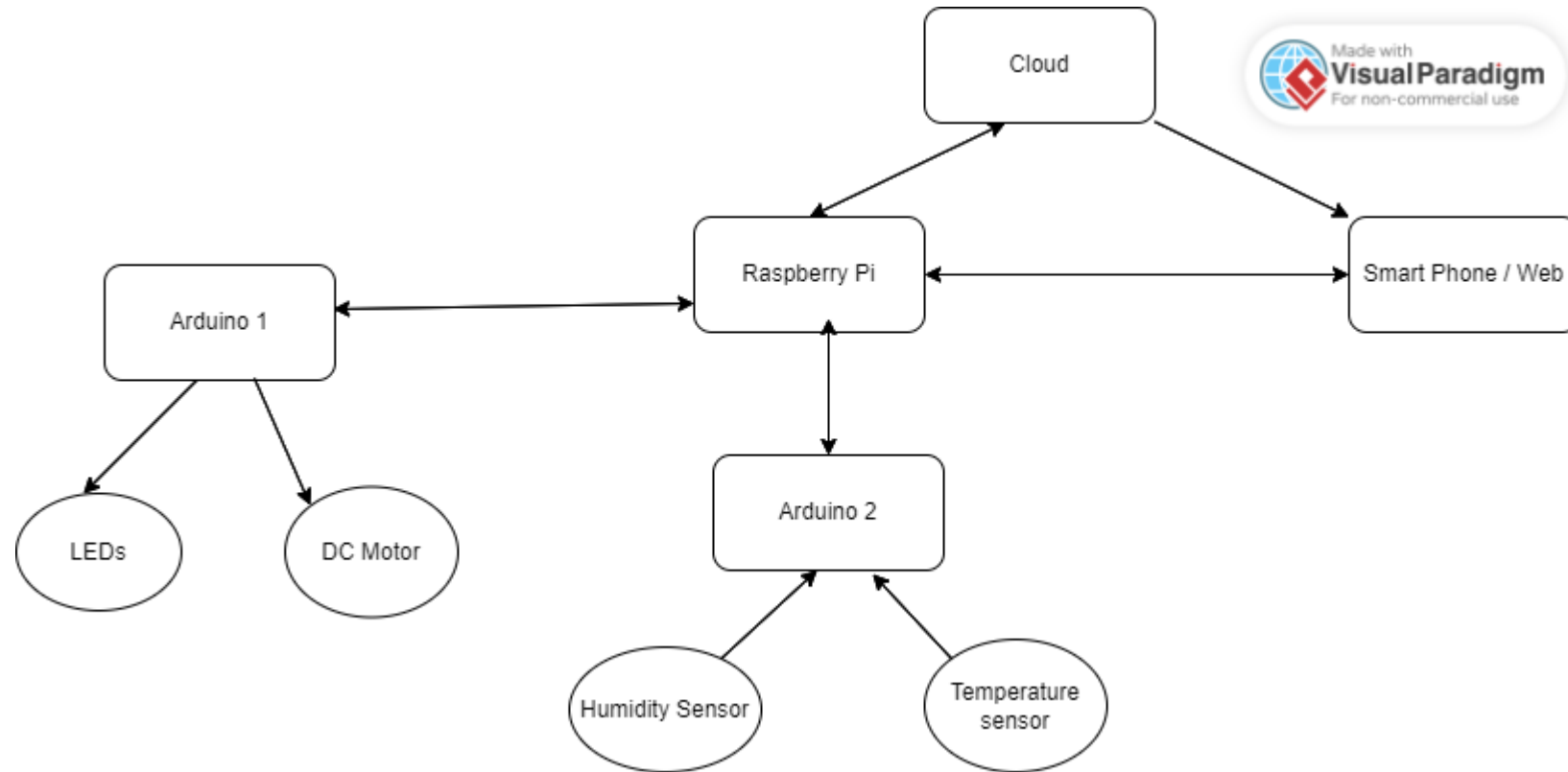
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# MOTIVATION

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# System's Concept

- Block Diagram

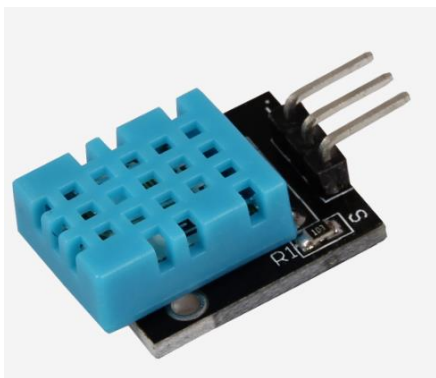


# Used Hardware and Software

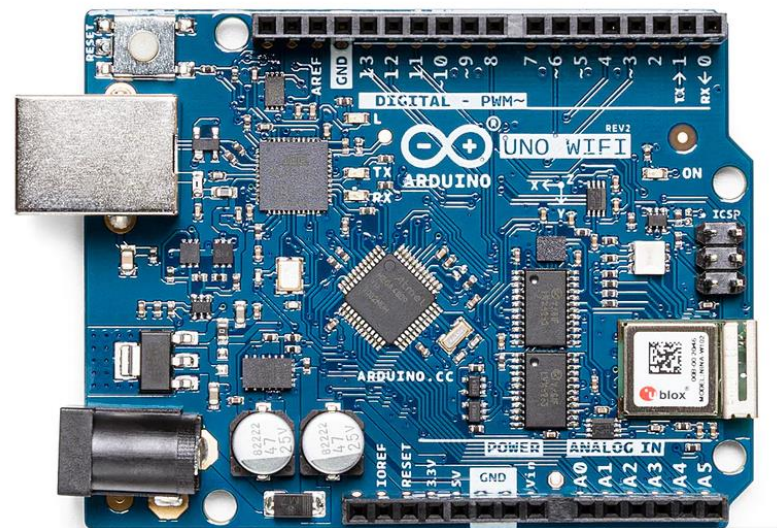
- **Hardware :**
  - 1 x RGB LED Actuator
  - 1 X Humidity/Temperature Sensor
  - 1 x DC Motor
  - 1 X Raspberry Pi
  - 2 X Microcontrollers: Arduino Uno Wifi R2
  - 1 X SmartPhone
- **Software :**
  - Raspberry Pi: Central station
  - Arduino IDE
  - Mqtt mobile application

# Parts of system

- Publisher (sensor unit)

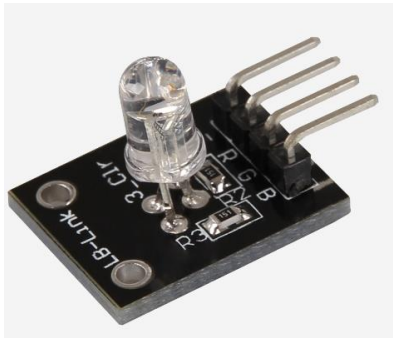


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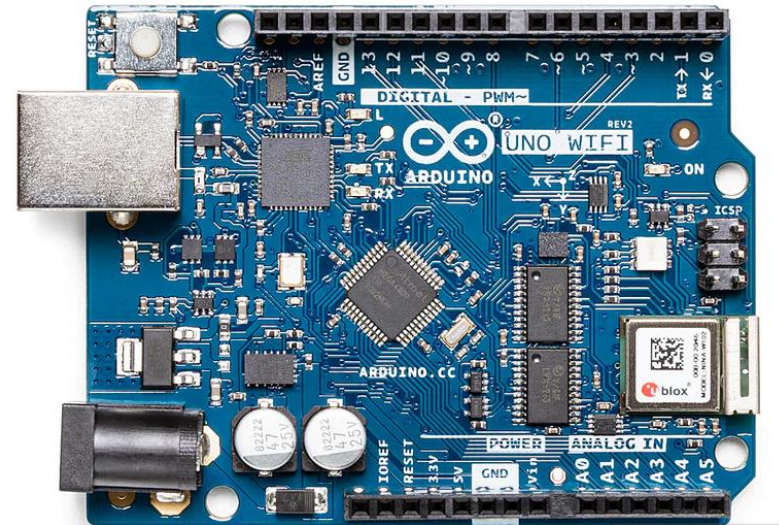


# Parts of system

- Subscriber (Actuators unit)



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# Implemetation

- Snipts of Arduino Code

# REAL Testing of the System

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# Thank you

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# Implementation Results

- Recorded Video