Smart flower pot!

AYA ANWAR

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Factors

MARKET DEMAND FOR SMART HOME DEVICES

USER EXPERIENCE

TECHNOLOGICAL ADVANCEMENTS

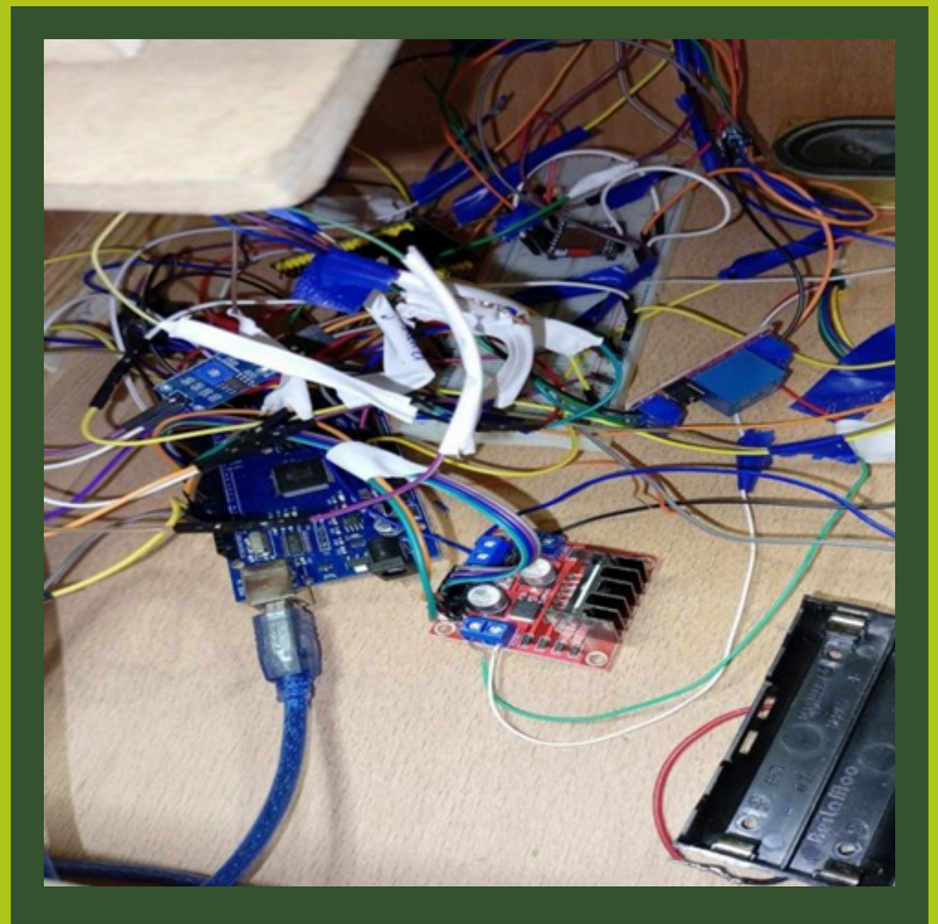
Our Solution

AUTO FLOWER POT

Our smart plant pot revolutionizes plant care by integrating advanced technology and convenience. Equipped with autonomous mobility, it uses ultrasonic sensors for obstacle detection and adjusts its position to optimize sunlight . The pot features comprehensive environmental monitoring, including soil moisture, humidity, and light intensity sensors.

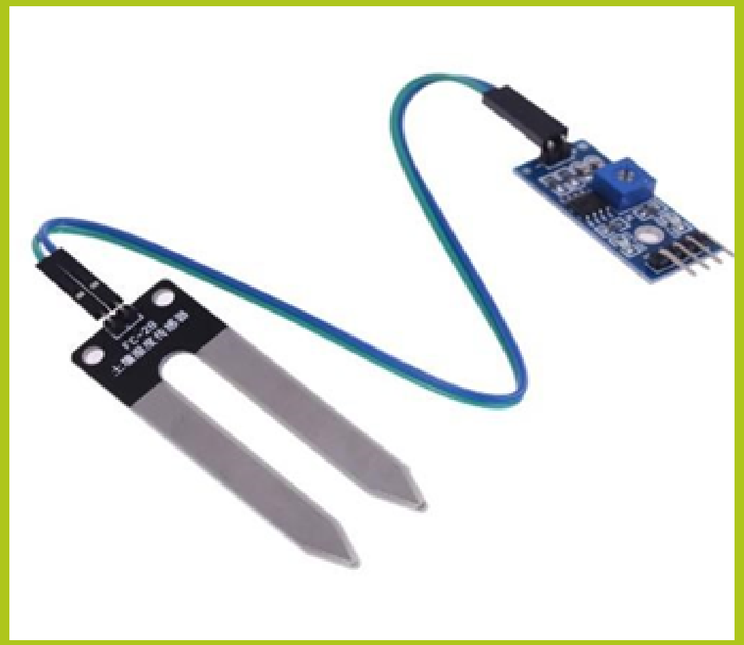
External Design

Stages



STAGES

Sensors



Humidity Sensor

Light Sensor (LDR)

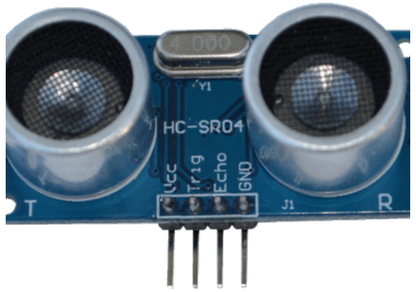
Water Level Sensor

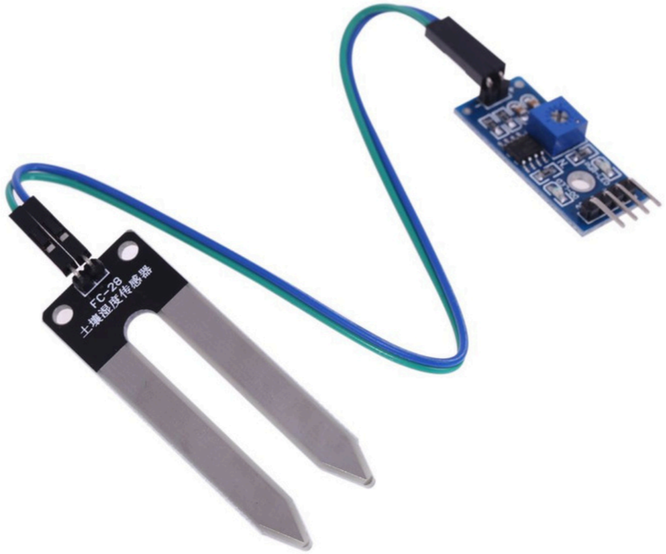
Ultrasonic sensors

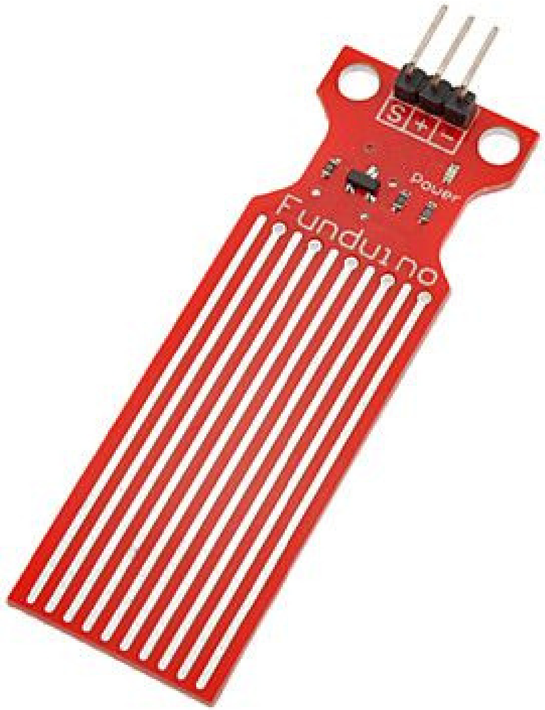
User Interface and Emergency Control

Hardware components

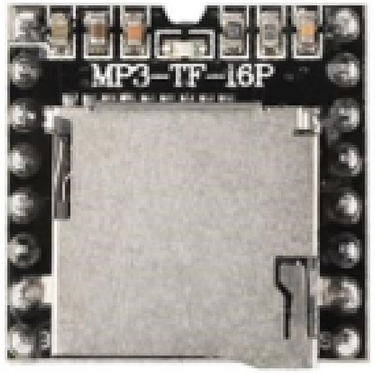
CONTROLLERS AND SENSORS





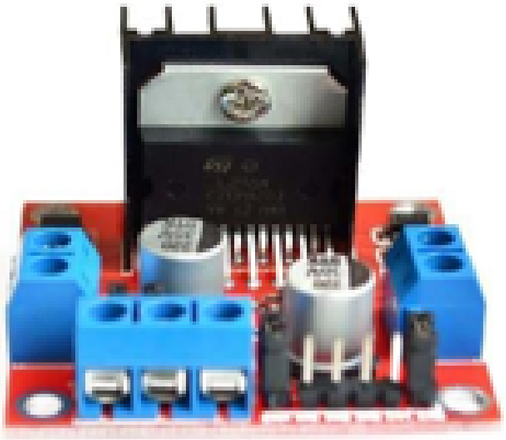


Hardware components



Hardware components

MOTORS AND DRIVERS



Hardware components

5V 1-Channel Relay Module Active...

Hardware components

USER INTERFACE

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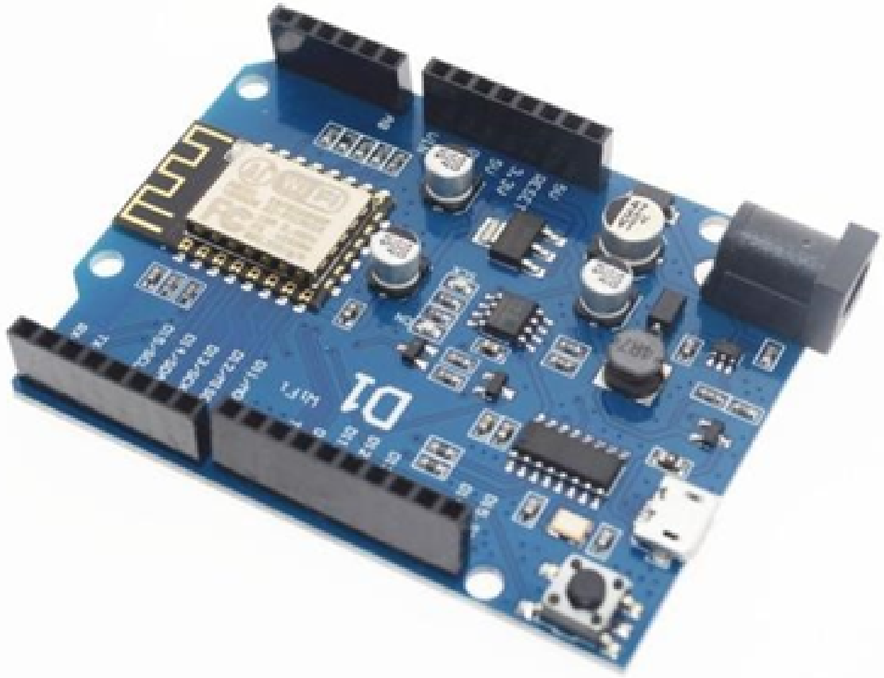
Hardware components



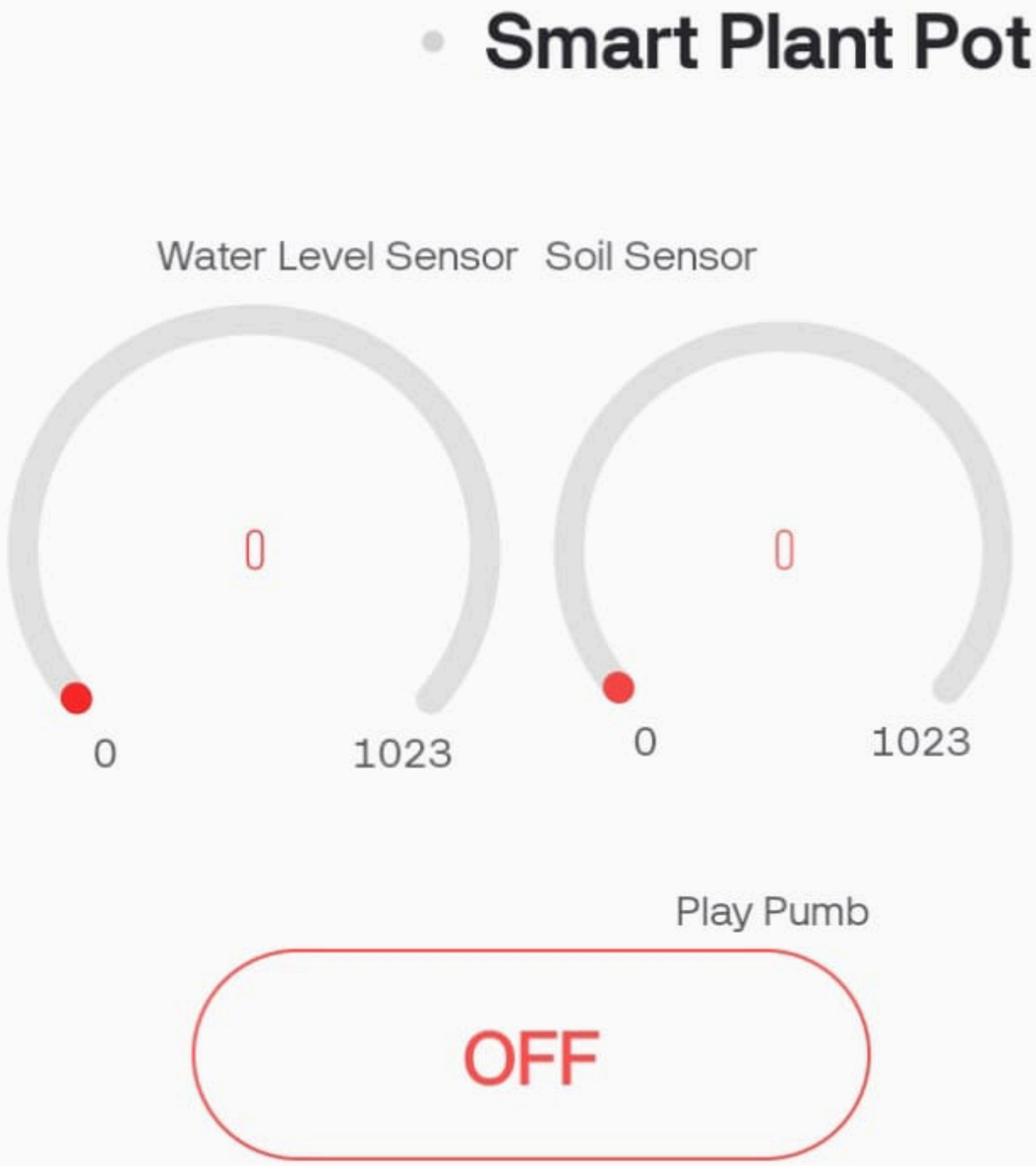
ESP8266: This module provides Wi-Fi connectivity, enabling the Smart Plant Pot to receive user commands and transfer data to the mobile app

STANDARDS

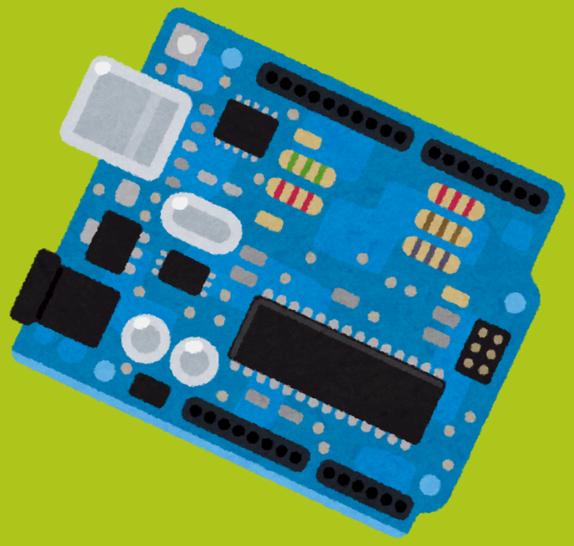
For coding and hardware control

Remote Control Standard

Admin Side


Smart Plant Pot
Water Level Sensor
Soil Sensor
0
0
0
1023
0
1023
Play Pumb
OFF

TIME CONSTRAINT



Arduino Burnout

MECHANICAL STAGES DESIGN

CONSTRAINTS LIMITATIONS

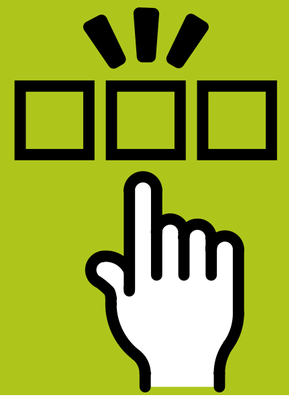
Futureworks

Expanded Sensor Suite

Wireless charging

• Nutrient Dispensing System

EXPANDED INGREDIENT CHOICES



THANK YOU