Static Design

1. Layered Architecture

Lib

App

Service

BIT\_MATH

Sensor Manger

Communication Manger

STM32F446xx

Communication Handler

Hal

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Sensor Handler

Moisture Sensor

PH Sensor

Humidity Sensor

OS

LDR

Camera

Water level Sensor

Temp Sensor

STD\_TYPES

Light control

WIFI

Valve

Pump

GPT

SPI

I2C

Mcal

UART

DCMI

EXTI

DMA

ADC

RCC

DIO

Port

SCB

PWM

NVIC