ESP Smart Planter – Documentation

Below are pictures of the custom PCB

A purple circuit board with yellow dots

Description automatically generatedA purple circuit board with yellow dots

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# Hardware:

* ESP32 Devkit v1
* PN532 RFID reader
* LDR
* (Capacitive) soil moisture sensor
* I2C 20x4 LCD
* Passive buzzer (or speaker)
* Ds18b20 soil temperature sensor
* BME280
* WS2812B LED (COB) strip
* 4-channel (5v) relay module
* Water pump (12v)
* Fan (12v)
* Power supplies (5v & 12v)
* Wires

# The software: