# Smart Greenhouse Controller

## Sensors:

* Thermistor module
* Soil Moisture Sensor Module
* Photoresistor module

## Actuators:

* Water pump
* HVAC system(fan)
* 2 LED lights

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| **Description** | **GPIO BCM** |
| CS | 17 |
| CH0 | Photoresistor |
| CH1 | Thermistor |
| GND | GND |
| DI | 22 |
| D0 | 27 |
| CLK | 18 |
| Vcc | 3.3 V |
| Blue LED | 13 |
| HVAC system(Fan) A | 26 |
| HVAC system(Fan) B | 20 |
| Relay | 12 |
| CS(2nd ) | 19 |
| Ch0(2nd ) | Soil Moisture |
| GND(2nd ) | GND |
| DI(2nd ) | 24 |
| DO(2nd ) | 23 |
| CLK(2nd ) | 25 |
| Vcc(2nd ) | 3.3 |