Capacitive Moisture Sensor

SIG

File: capacitive.kicad_sch

Microcontroller

SIG
SDA
SCL
U0RXD
U0TXD
LED_SIG
IN1
IN2

File: microcontroller.kicad_sch

USB

U0RXD
U0TXD
USBDM
USBDP

File: USB.kicad_sch

Connectors

USBDM
USBDP
LED_SIG
OUT_1
OUT_2

File: connectors.kicad_sch

Sensor

SCL
SDA

File: sensors.kicad_sch

Power

File: power.kicad_sch

Pump Driver

IN1
IN2
OUT_2
OUT_1

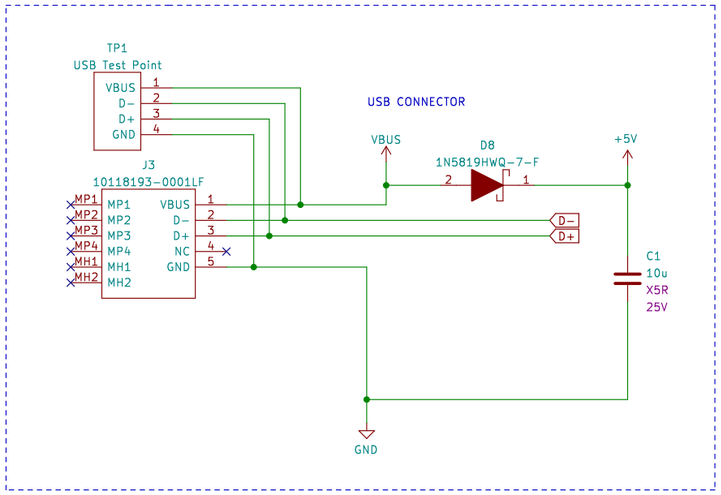
File: pump.kicad_sch

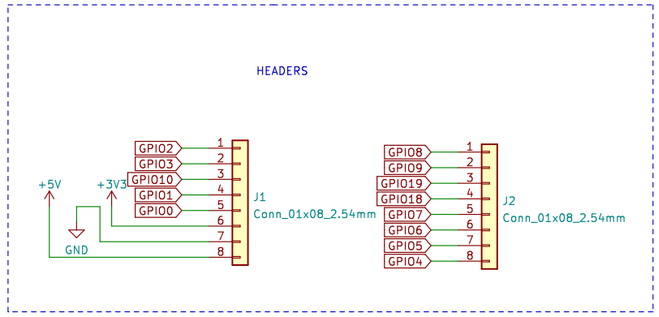
Designed by elektroThing

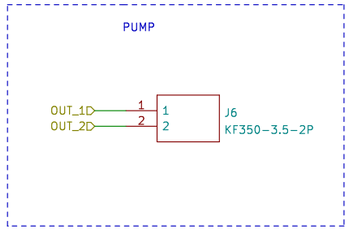
Sheet: /
File: Grower.kicad_sch

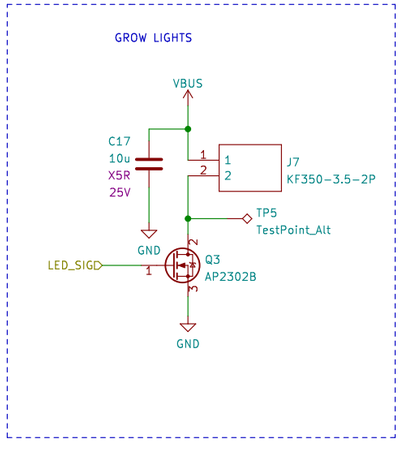
**Title: Plant Bot**

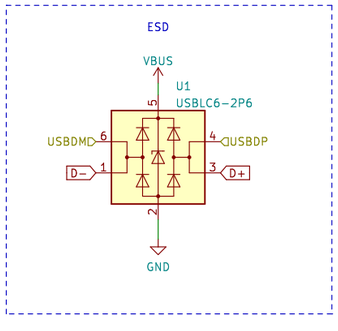
| | | |
|---|---|---|
| Size: A3 | Date: 2022-03-21 | **Rev: A** |
| KiCad E.D.A. kicad (6.0.0) | | Id: 1/8 |

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Sheet: /Connectors/
File: connectors.kicad_sch

**Title: Plant Bot**

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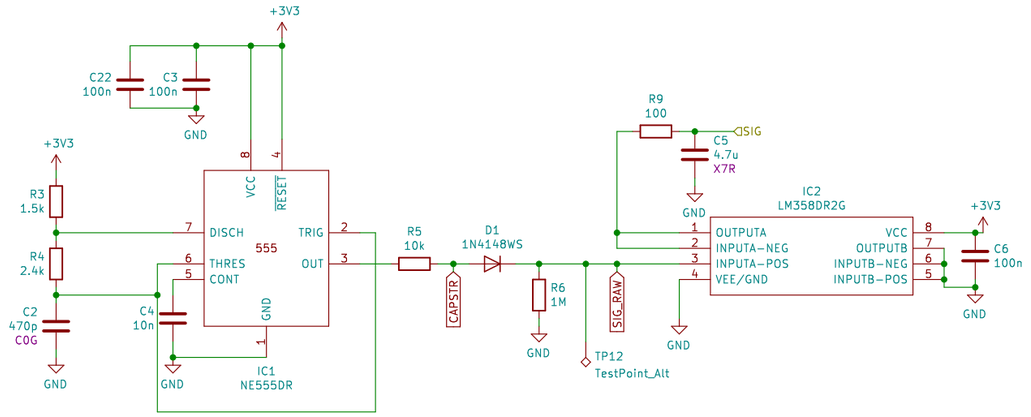
|---|---|---|
| Size: A3 | Date: 2022-03-21 | **Rev: A** |
| KiCad E.D.A. kicad (6.0.0) | | Id: 2/8 |

CAP MOISTURE SENSOR

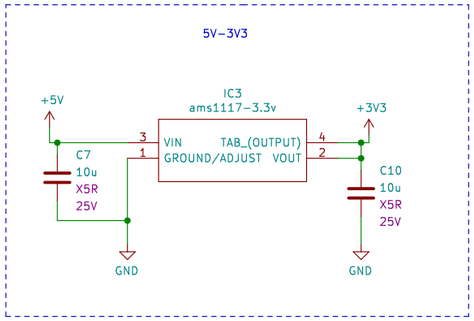


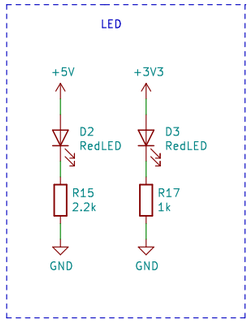

Designed by elektroThing

Sheet: /Capacitive Moisture Sensor/
File: capacitive.kicad_sch

**Title: Plant Bot**

| Size: A3 | Date: 2022-03-21 | **Rev: A** |
|---|---|---|
| KiCad E.D.A. kicad (6.0.0) | | Id: 3/8 |




Designed by elektroThing

Sheet: /Power/
File: power.kicad_sch

**Title: Plant Bot**

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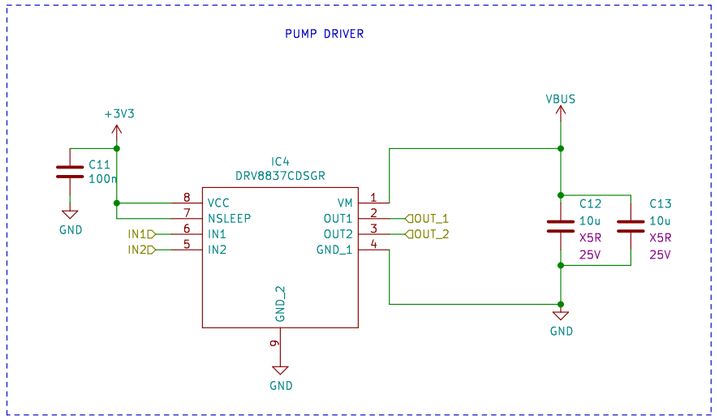
|---|---|---|
| Size: A3 | Date: 2022-03-21 | **Rev: A** |
| KiCad E.D.A. kicad (6.0.0) | | Id: 4/8 |

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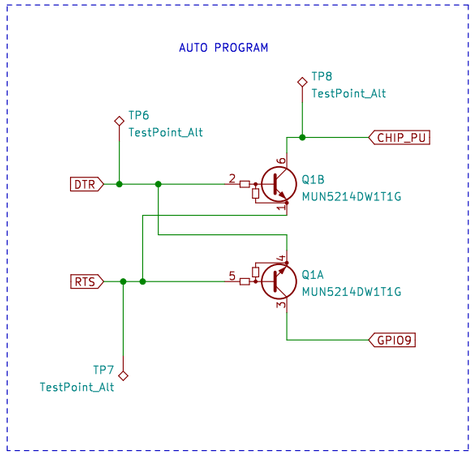
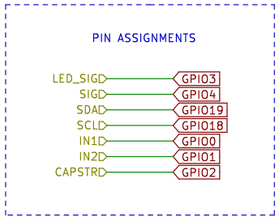
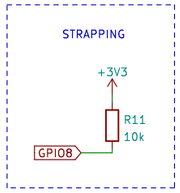
Sheet: /Pump Driver/
File: pump.kicad_sch

**Title: Plant Bot**

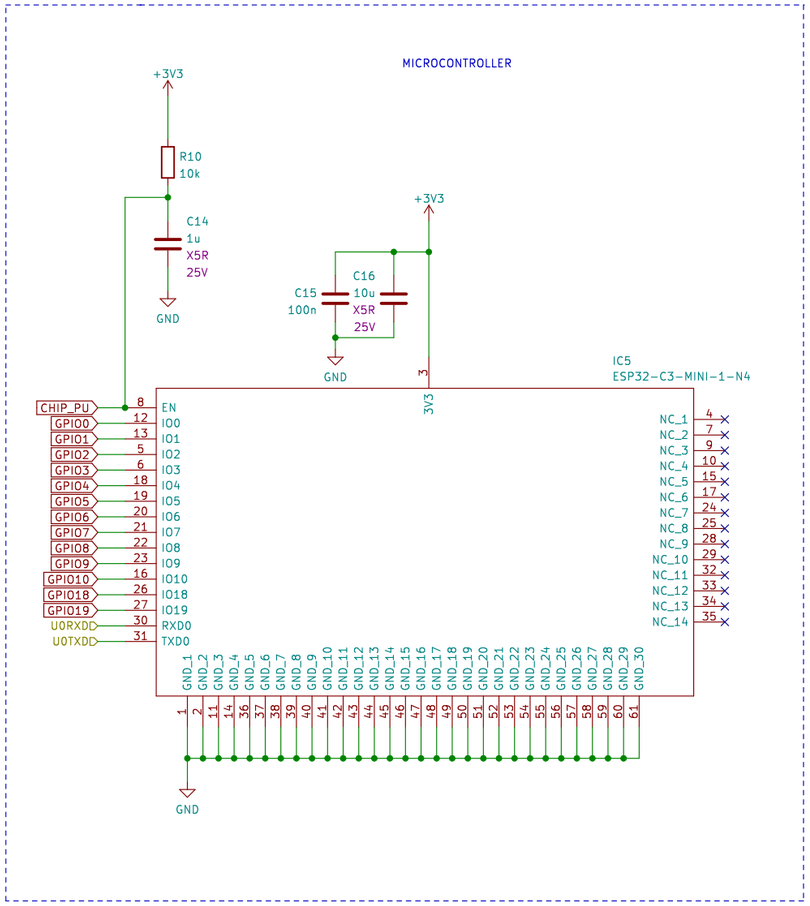
| | | |
|---|---|---|
| Size: A3 | Date: 2022-03-21 | **Rev: A** |
| KiCad E.D.A. kicad (6.0.0) | | Id: 5/8 |

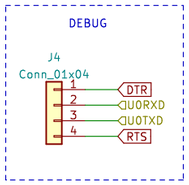


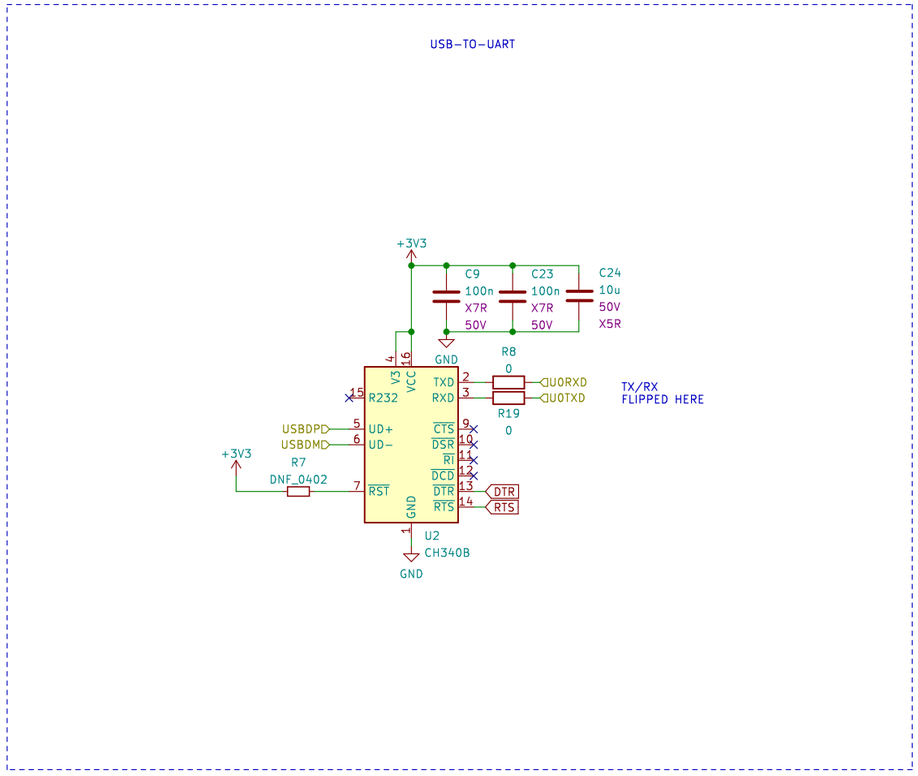




Replace with ESP32 WROOM E


MICROCONTROLLER
+3V3
R10
10k
C14
1u
X5R
25V
GND
+3V3
C15
100n
C16
10u
X5R
25V
GND
3V3
IC5
ESP32-C3-MINI-1-N4
CHIP_PU
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO18
GPIO19
U0RXD0
U0TXD0
EN
IO0
IO1
IO2
IO3
IO4
IO5
IO6
IO7
IO8
IO9
IO10
IO18
IO19
RXD0
TXD0
NC_1
NC_2
NC_3
NC_4
NC_5
NC_6
NC_7
NC_8
NC_9
NC_10
NC_11
NC_12
NC_13
NC_14
GND
GND
GND




https://pcbartists.com/design/embedded/esp32-ch340-programmer-schematic/

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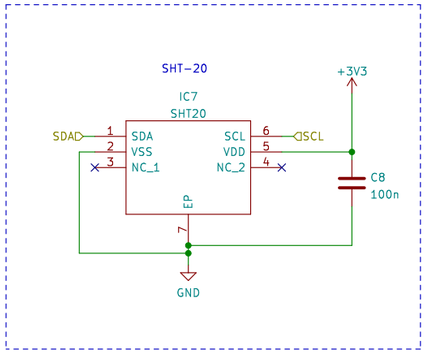
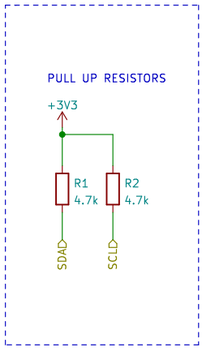
Sheet: /USB/
File: USB.kicad_sch

**Title: Plant Bot**

| Size: A3 | Date: 2022-03-21 | **Rev: A** |
|---|---|---|
| KiCad E.D.A. kicad (6.0.0) | | Id: 7/8 |




Designed by elektroThing

Sheet: /Sensor/
File: sensors.kicad_sch

**Title: Plant Bot**

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|---|---|---|
| Size: A3 | Date: 2022-03-21 | **Rev: A** |
| KiCad E.D.A. kicad (6.0.0) | | Id: 9/8 |