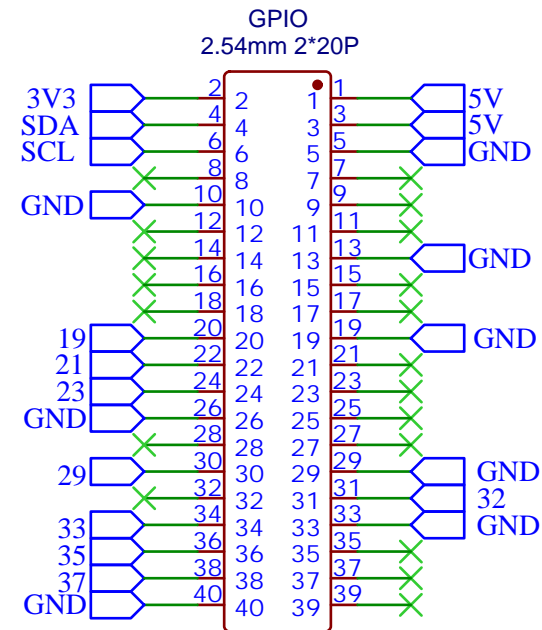
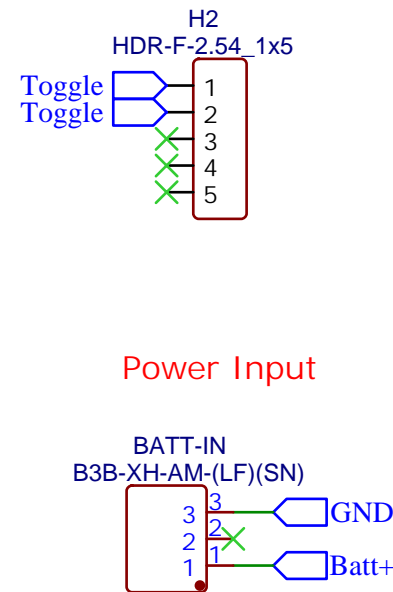


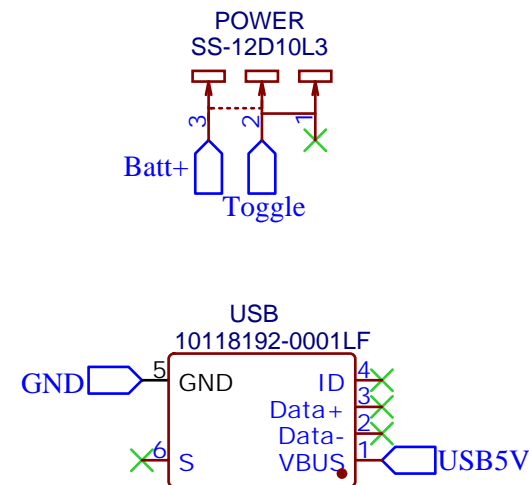
Pi GPIO TOP



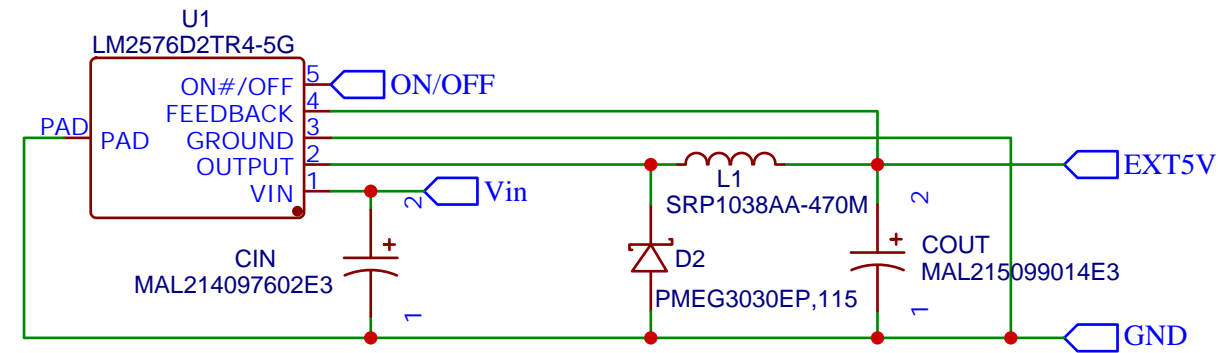
TOP-BTM-Interface



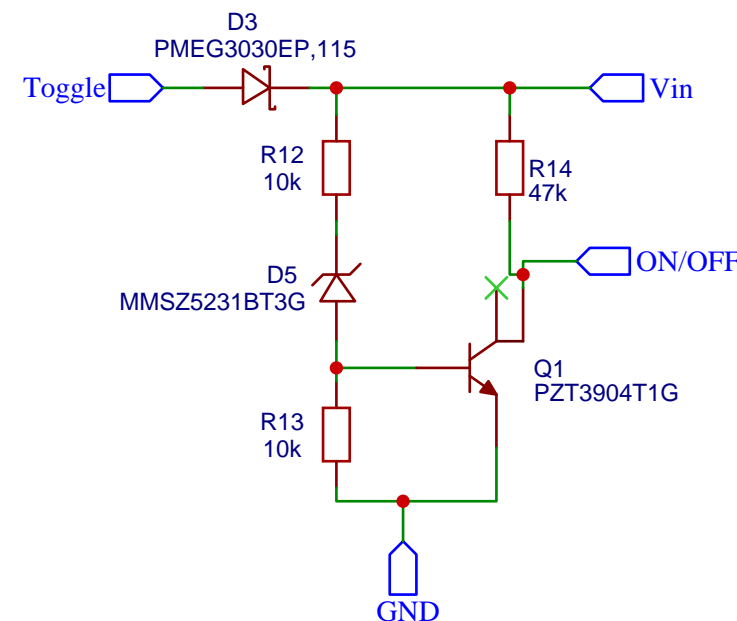
Power Input



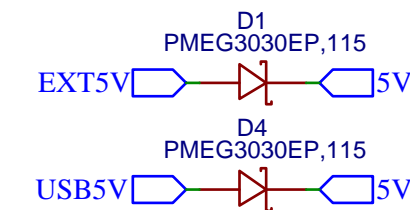
5V Switchmode PSU



Undervoltage Lockout 6.3V



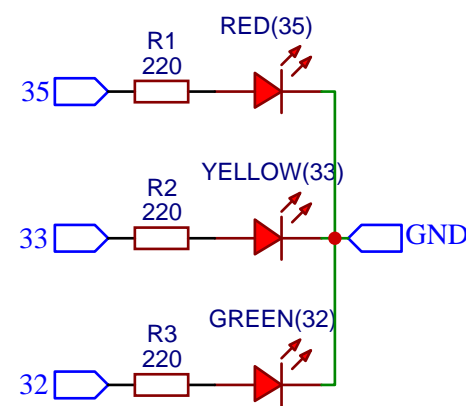
Power Oring



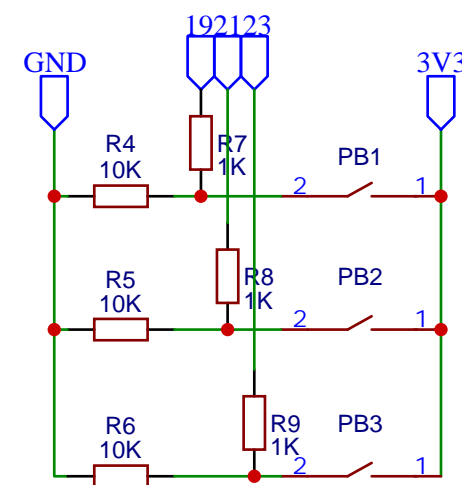
StemCube Top Prototype 2 Update Notes

- Upgrade power supply chip to LM2576 (5V 3A)
- Include micro USB B input for external power supply
- Include auto selection diode to switch between external and battery power supply
- Included UVLO (6.3V) turns off PSU
- Change GPIO pin from BCM to board pins number
- Moved BME280 to Top board
- Changed several pin assignments
- Reworked TOP-BTM Interface: replaced male header with single extended header
- Removed buzzer resistor

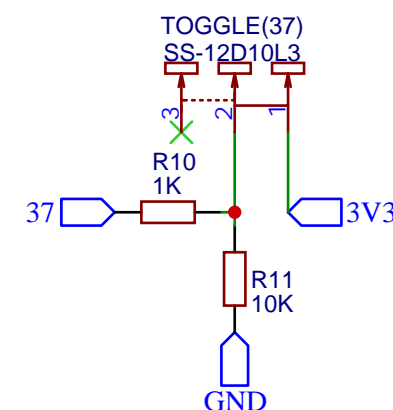
LED ARRAY



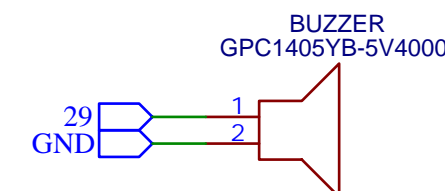
PB ARRAY



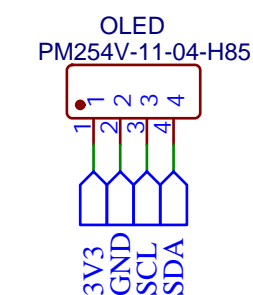
Toggle Switch



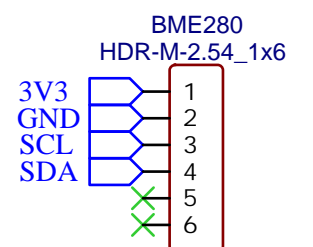
BUZZER



OLED



BME280



TITLE: StemCube Top Prototype 2		REV: 2.0
Company: UMP Stem Lab		Sheet: 1/1
Date: 13/4/2022	Drawn By: Phuah Soon Eu	