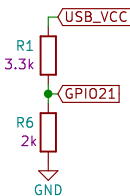
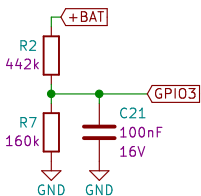


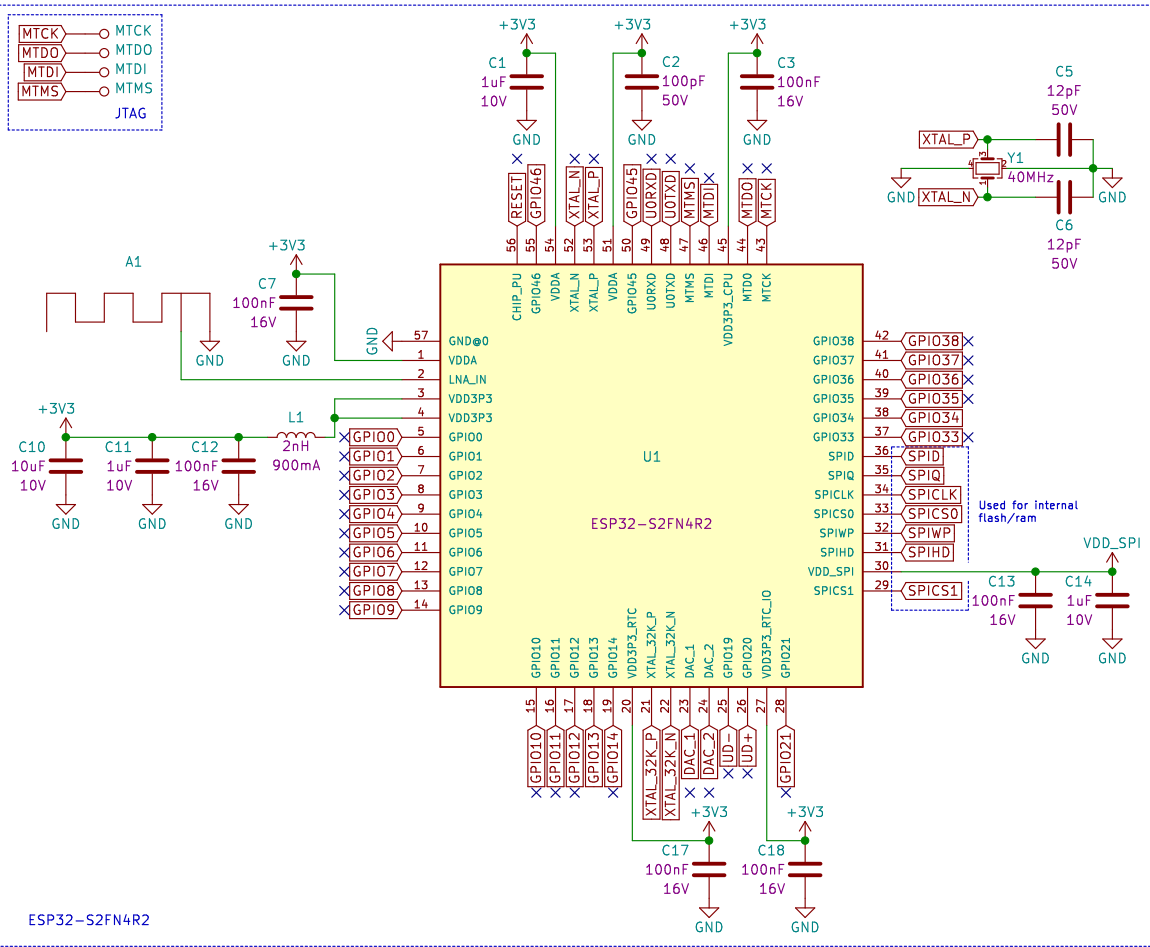
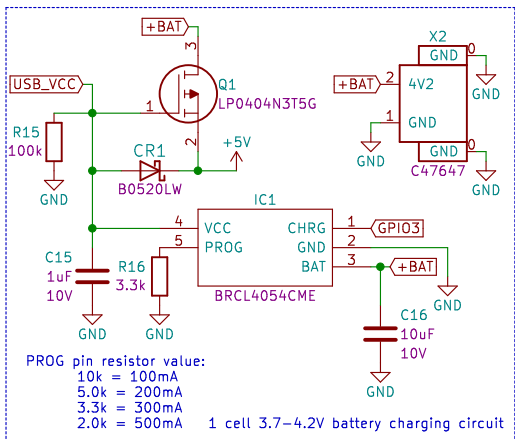
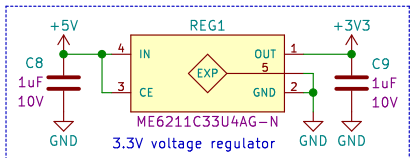
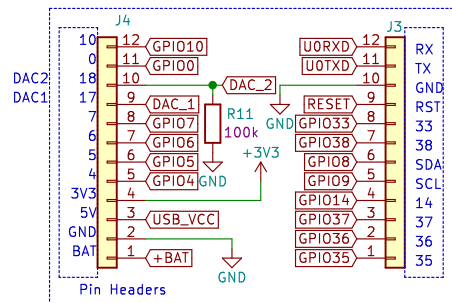
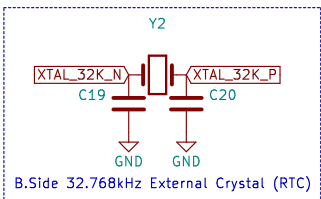
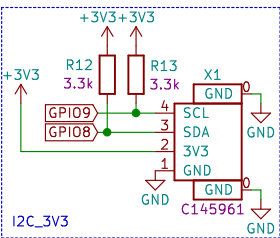
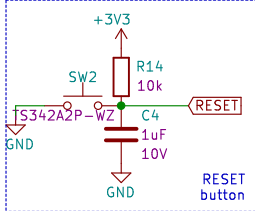
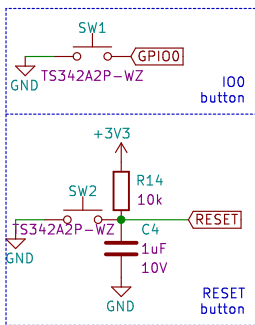
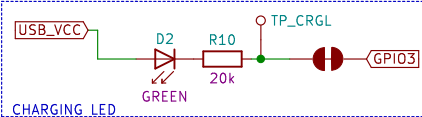
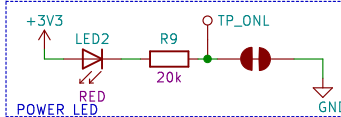
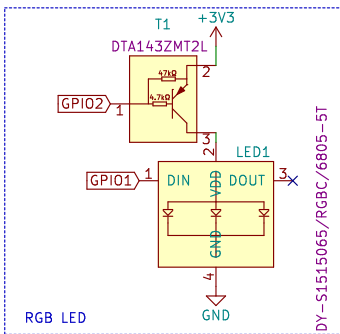
check if a 5V power source is connected to the board by reading if IO21 or board. VBUS is high. This allows you to alter your code when running off battery when you have a 5V source present or not... pretty cool :)



can read an approximate voltage from a connected battery via IO3.



To detect when the BRCL4054CME is in charge mode, force the digital output pin (GPIO11) high and measure the voltage at the GPIO12 pin



Sheet: Revision history		
File: Revision history.sch		
Schematic: Victor		
GroundStudio.ro		
Sheet: /		
File: REV0.0.2 UIECRE_GS CARBON S2.sch		
Title: Carbon S2		
Size: A3	Date: 2021-12-08	Rev: 0.0.2
KiCad E.D.A. kicad (5.1.12)-1		Id: 1/2

1	2	3	4	5	6
REV 0.0.2: -changed GPIO3 with GPIO12 between R3 and R8 because GPIO12 cannot be pulled high while in flash mode -added revision history for schematic changes -added 100nF in parallel with R7 for better battery voltage level reading					
A					A
B					B
C					C
D					D
1	2	3	4	5	6

Schematic: Victor

GroundStudio.ro

Sheet: /Revision history/

File: Revision history.sch

Title: Carbon S2

Size: A4

Date: 2021-12-08

Rev: 0.0.2

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Id: 2/2