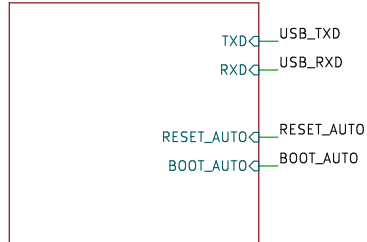


Power input



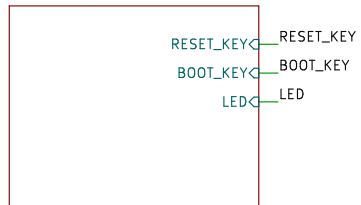
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USB



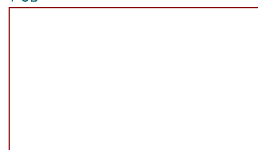
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User Interface



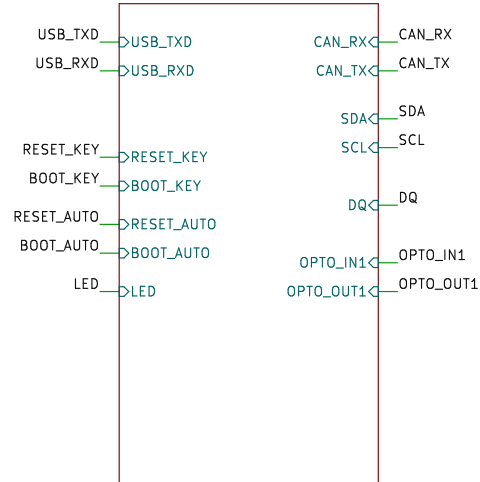
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PCB



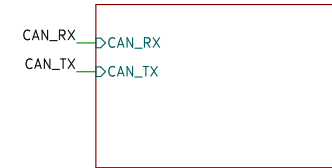
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ESP32



File: ESP32.kicad_sch

CAN bus



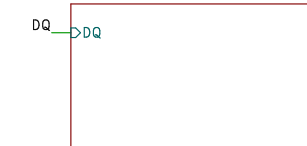
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I2C



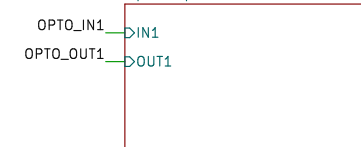
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Onewire



File: onewire.kicad_sch

Optocouplers



File: optocouplers.kicad_sch

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Sheet: /
File: SH-ESP32.kicad_sch

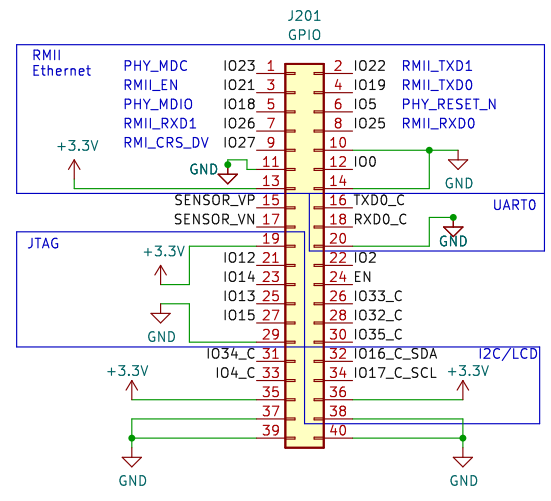
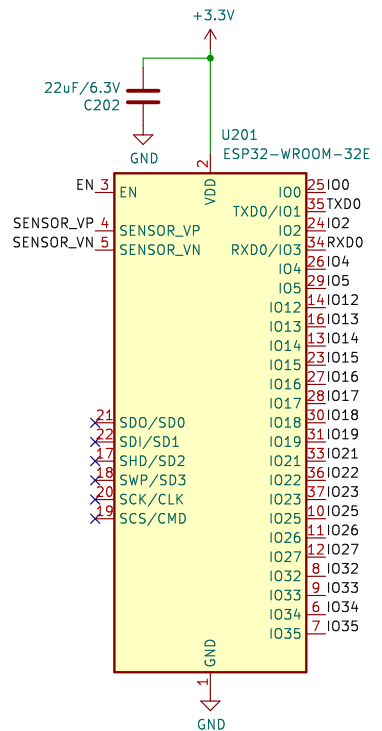
Title: Sailor Hat with ESP32

Size: A4 Date: 2023-08-10

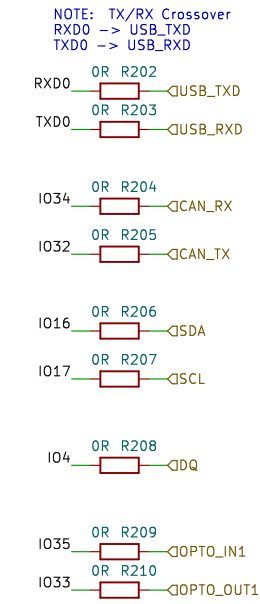
KiCad E.D.A. kicad 7.0.9

Rev: 2.0.3

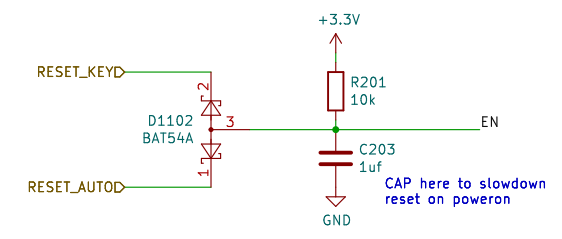
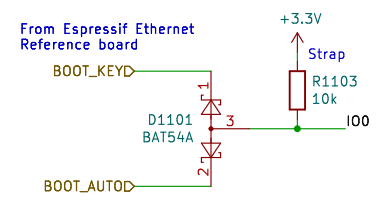
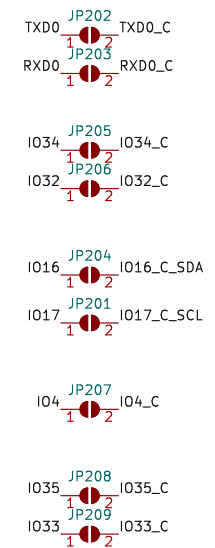
Id: 1/10



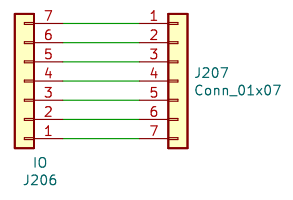
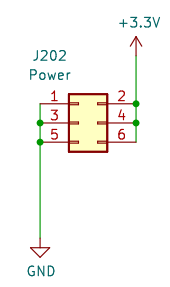
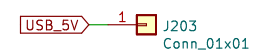
OR jumpers allow for rerouting and disabling peripherals



Solder jumpers allow for rerouting peripherals GPIOs to J201



For safety reasons, a USB 5V two-pin header was downgraded to a single pin test point.

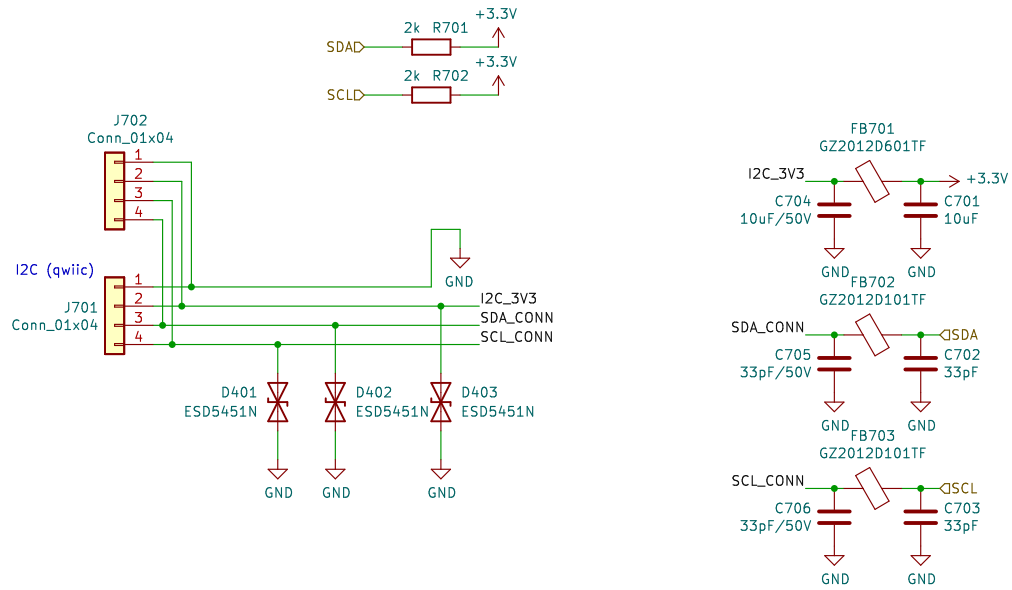


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Sheet: /ESP32/
File: ESP32.kicad_sch

Title: Sailor Hat with ESP32

Size: A4	Date: 2023-08-10	Rev: 2.0.3
KiCad E.D.A. kicad 7.0.9		Id: 3/10



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Sheet: /I2C/
 File: I2C.kicad_sch

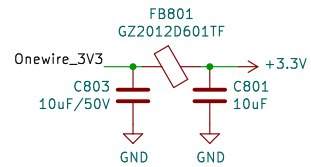
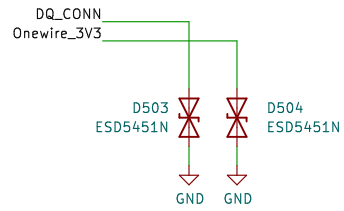
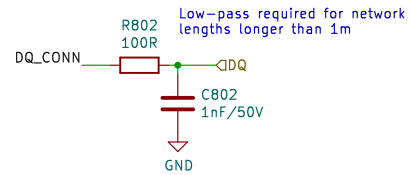
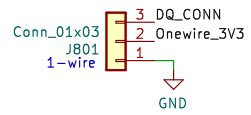
Title: Sailor Hat with ESP32

Size: A4 Date: 2023-08-10

KiCad E.D.A. kicad 7.0.9

Rev: 2.0.3

Id: 4/10



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Sheet: /Onewire/
 File: onewire.kicad_sch

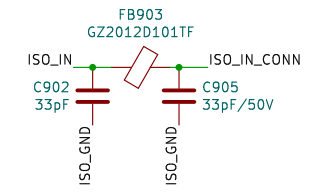
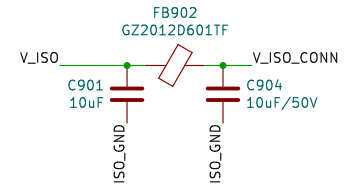
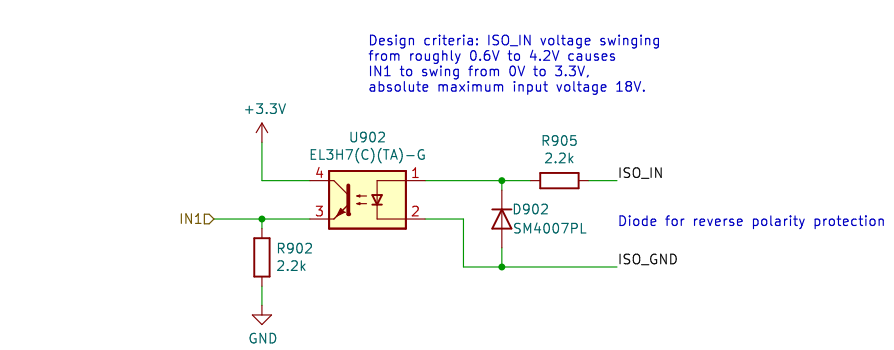
Title: Sailor Hat with ESP32

Size: A4 Date: 2023-08-10

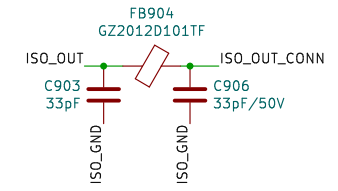
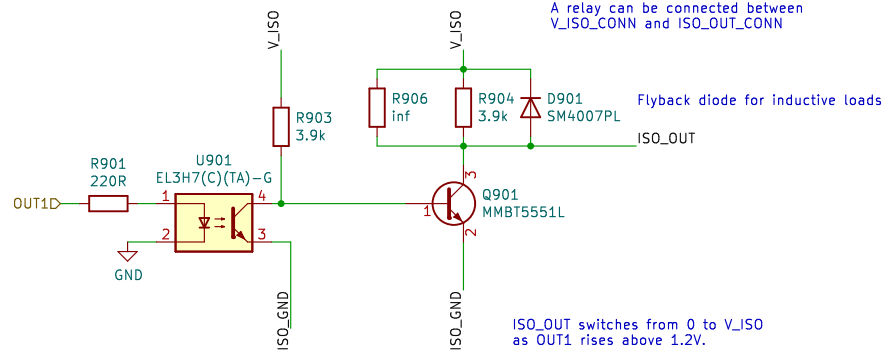
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Rev: 2.0.3

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R906 is an unpopulated pad to allow for adding a stronger pullup if needed.



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Sheet: /Optocouplers/
 File: optocouplers.kicad_sch

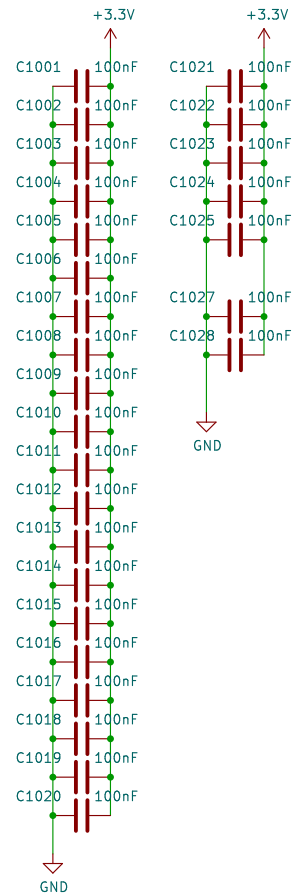
Title: Sailor Hat with ESP32

Size: A4	Date: 2023-08-10	Rev: 2.0.3
KiCad E.D.A. kicad 7.0.9		Id: 6/10

Mounting holes

- H1001 MountingHole
- H1002 MountingHole

Decoupling caps



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Sheet: /PCB/
File: PCB.kicad_sch

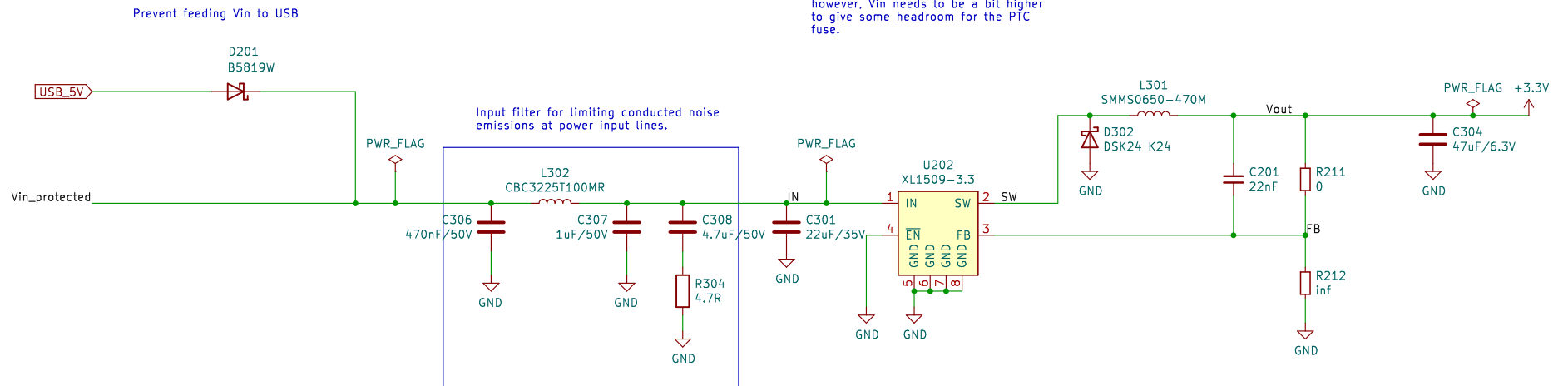
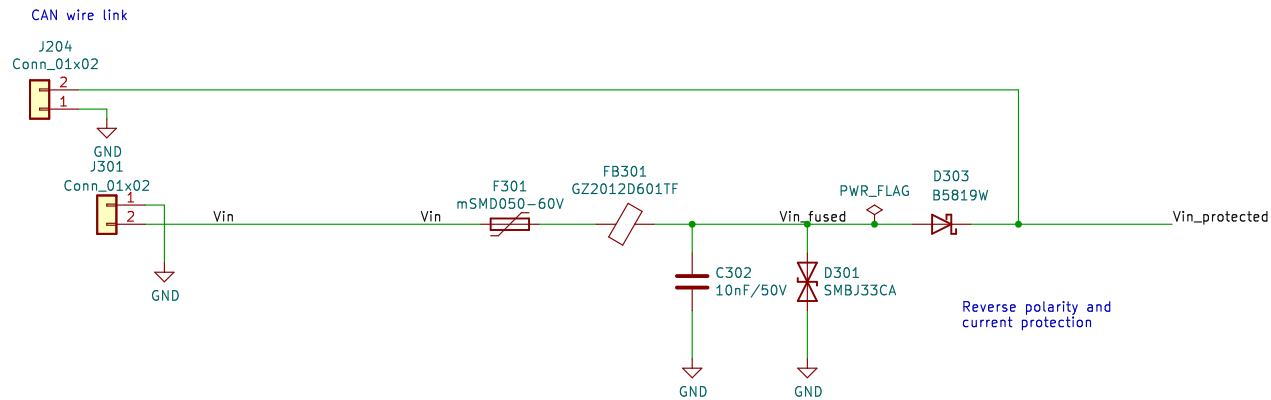
Title: Sailor Hat with ESP32

Size: A4 Date: 2023-08-10

Rev: 2.0.3

KiCad E.D.A. kicad 7.0.9

Id: 7/10



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Sheet: /Power input/
File: power-input.kicad_sch

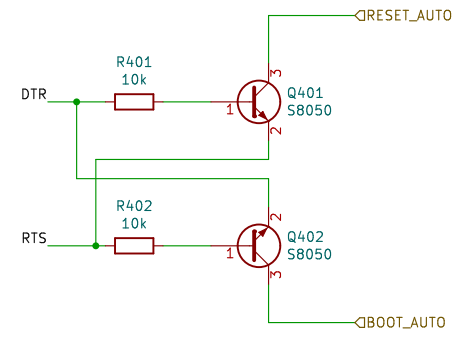
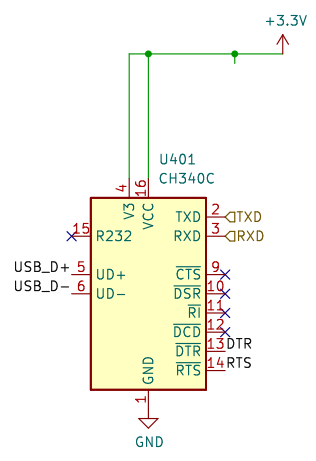
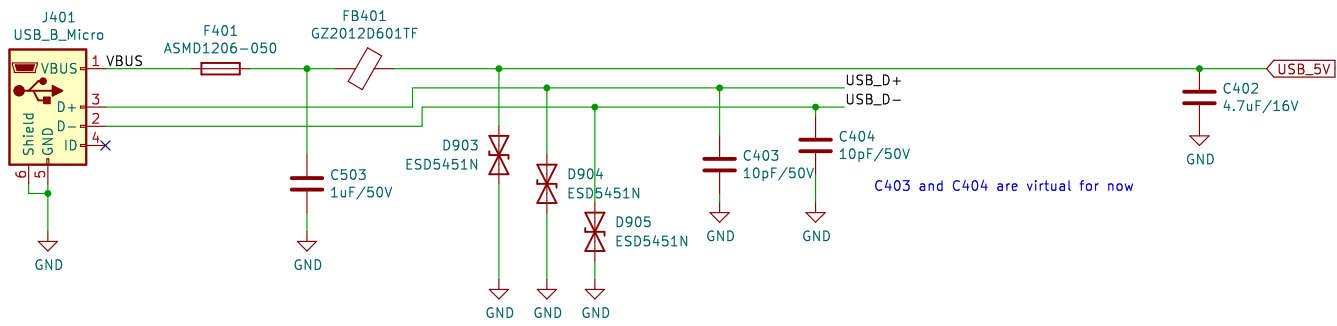
Title: Sailor Hat with ESP32

Size: A4 Date: 2023-08-10

KiCad E.D.A. kicad 7.0.9

Rev: 2.0.3

Id: 8/10



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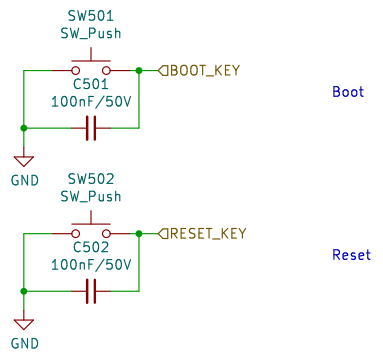
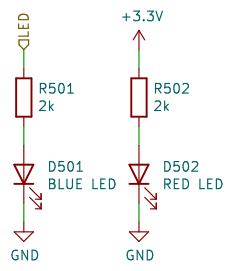
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Title: Sailor Hat with ESP32

Size: A4 Date: 2023-08-10
 KiCad E.D.A. kicad 7.0.9

Rev: 2.0.3
 Id: 9/10



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Hat Labs Ltd		
Sheet: /User Interface/ File: UI.kicad_sch		
Title: Sailor Hat with ESP32		
Size: A4	Date: 2023-08-10	Rev: 2.0.3
KiCad E.D.A. kicad 7.0.9		Id: 10/10