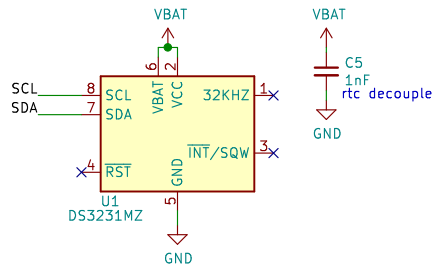
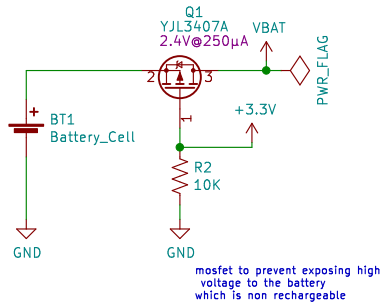


link 1: <https://www.arduino.cc/en/Tutorial/BuiltInExamples/ArduinoToBreadboard>  
link 2: <https://create.arduino.cc/projecthub/techmirtz/arduino-without-external-clock-crystal-on-atmega328-d4fcc4>

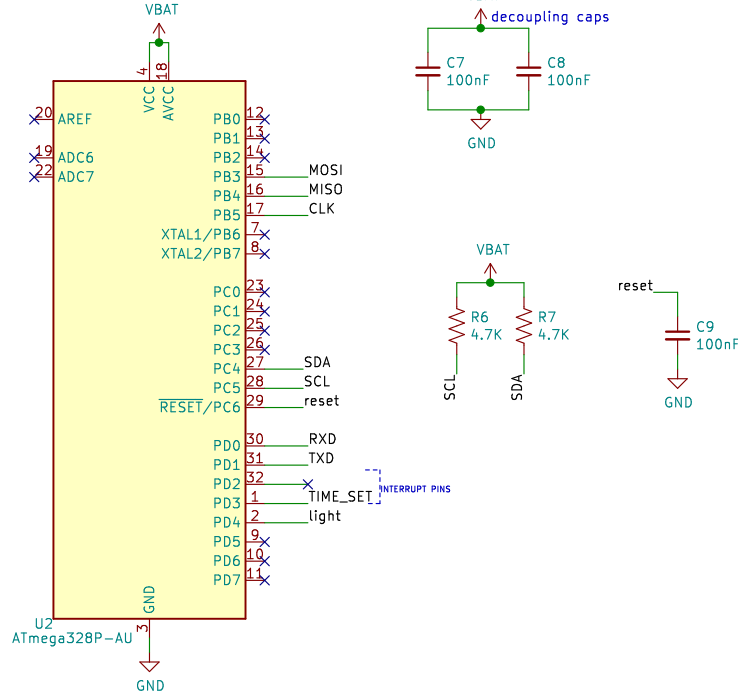
## RTC IC



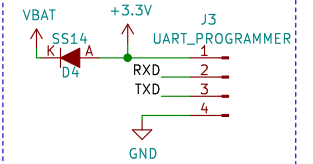
## BATTERY COIN CELL



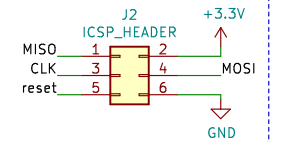
## MICROCONTROLLER ATMEGA328P-AU



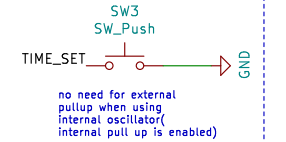
## UART PINS



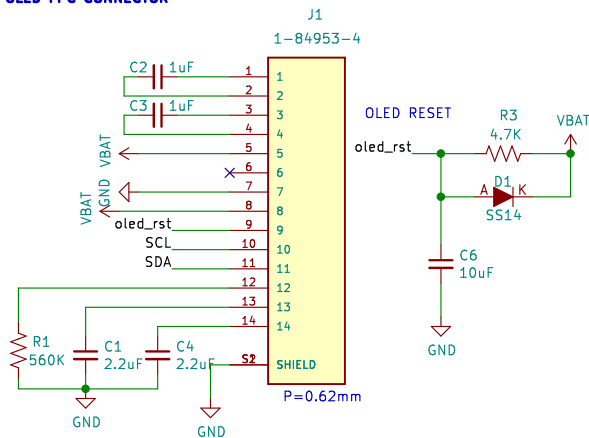
## ICSP HEADER



## LOGO BUTTON



## OLED FPC CONNECTOR



## LED A ON/OFF CIRCUIT

Sheet: sheet63DB9205



File: LIGHT\_ON/OFF\_CIRCUIT.sch

## LED B ON/OFF CIRCUIT

Sheet: Sheet63DA6431



File: LIGHT\_ON/OFF\_CIRCUIT.sch

MINI TORCH AND CLOCK BOARD  
Designed by: Robert M M

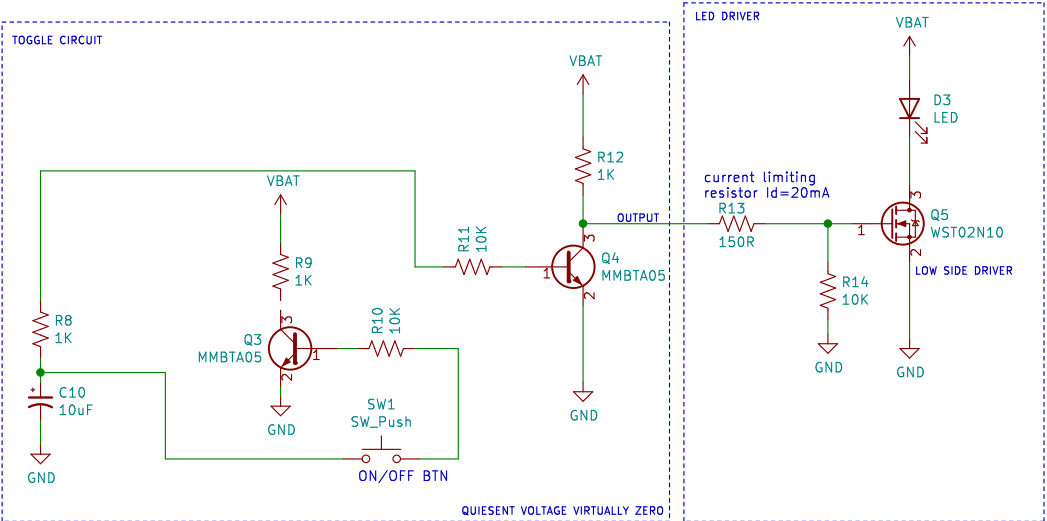
Sheet: /  
File: mini torch with clock.sch

## Title:

Size: A4 Date: 2021-12-03  
KiCad E.D.A. kicad (5.1.10)-1

Rev: Rev 1.0  
Id: 1/3

LIGHT TOGGLE CIRCUIT  
ON/OFF



Sheet: /Sheet63DA6431/  
File: OFF\_CIRCUIT.sch

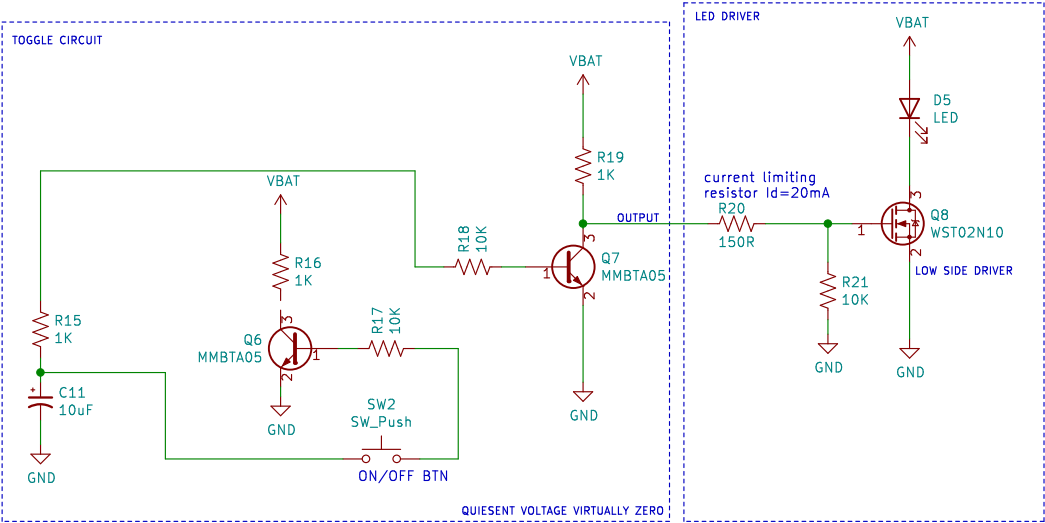
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Date:

Rev:  
Id: 2/3

LIGHT TOGGLE CIRCUIT  
ON/OFF



Sheet: /sheet63DB9205/  
File: OFF\_CIRCUIT.sch

**Title:**

Size: A4  
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Date:

Rev:  
Id: 3/3