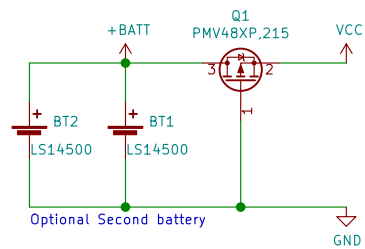
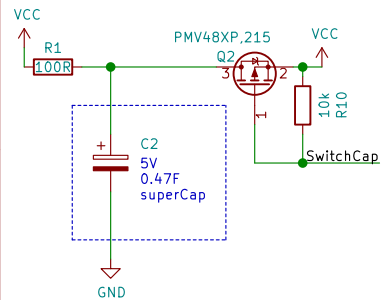


Battery and Reverse Voltage protection

Vcc(max) = 3.6V

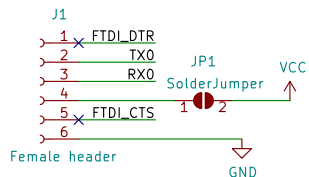


SuperCapacitor

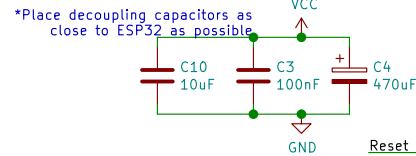


*SuperCapacitor Circuit still needs testing

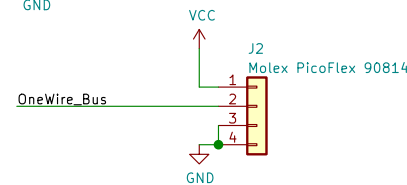
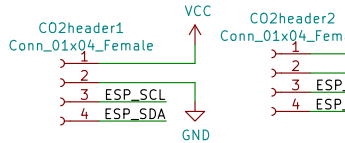
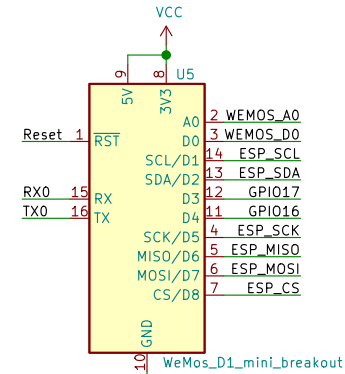
FTDI-Compatible programming header



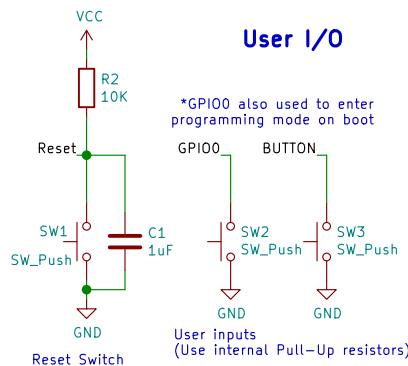
*TX and RX are ESP-Pins
pins are switched on
FTDI/CP2102 breakout



*Place decoupling capacitors as
close to ESP32 as possible

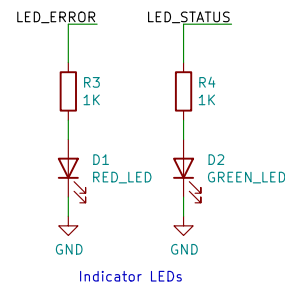


User I/O

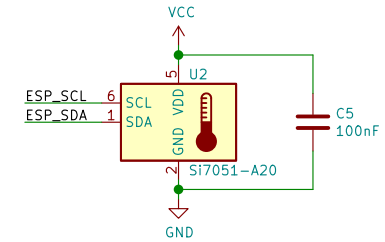


*GPIO0 also used to enter
programming mode on boot

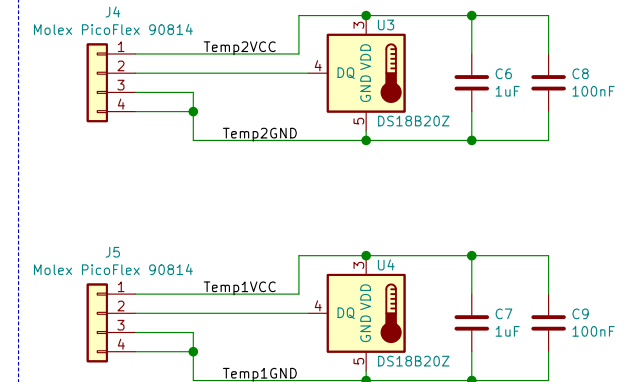
User inputs
(Use internal Pull-Up resistors)



Si7051 I2C Temperature Sensor On same PCB as ESP32



DS18B20 Temperature Sensors *On seperate breakout



*DS18B20 have extra capacitors due to
the longer wires

Licensed under CERN-OHL-P v2
Reviewed by: Marco Winkelman
Author: Sjors Smit

All resistors are 0603 1/4W
All unpolarized capacitors are 0603 MLCC >5V
All Polarized capacitors are SMD aluminium capacitors >5V
Unless otherwise specified

Research Group Energy Transition. Windesheim University of Applied Sciences

Sheet: /
File: TwomesSensor.sch

Title: Twomes Temperature Sensor Module

Size: A4 Date: 2021-04-12

KiCad E.D.A. kicad (5.1.7)-1

Rev: 1

Id: 1/1