## SMART AQUARIUM (WATER QUALITY MONITORING SYSTEM) U1 L7805 J2 001 PH Sensor 3.30 PWR\_FLAG SDA SCL U5 ESP32-WROOM-32 7.47 100 25 /101 35 102 24 ×<sup>3</sup> EN GND GND GND TXD0/I01 U2 ×4 SENSOR\_VP ×5 SENSOR\_VN BT1 Battery LM338 104 26 105 29 ADJ RESET R1 10k I012 I013 RESET D2 D3 D4 1012 1013 1014 13 1015 23 1016 27 $\rightarrow$ U4 GND DS18B20 AREF 18 RV1 10k SS\_RX 1018 1018 1019 1019 1021 33 1022 36 TX2 SS\_TX 21 SD0/SD0 22 SDI/SD1 17 SHD/SD2 18 SWP/SD3 20 SCK/CLK 19 SCS/CMD $\uparrow$ 11 D8 12 D9 13 D10 14 D11 15 D12 16 D13 GND SDA SCL R2 1022 37 1023 10 1025 10 1026 11 1027 12 1032 8 1033 9 1034 6 1035 7 ×3 D V S 1 J1 GND TDS Sensor Turbidity Sensor U3 TDS\_VCC Red-1 Interface Board A1 Blue-GND TDS\_GND Arduino\_Nano\_v3.x Yellow-R3 GND Q2 BC547 GND GND Sheet: / File: Smart\_Aquarium.kicad\_sch Title: Size: A4 Date: Rev: KiCad E.D.A. kicad (6.0.1) ld: 1/1