ESP32 & Sensors Pin diagram

Voltage Sensor

Output Type: - Analog Voltage
Output Pin: - D35

Current Sensor

Input: - 3.3V
Output Type: - Analog Voltage
Output Pin: - D4

Temperature Sensor

Input: - 3.3V
Output Type: - Digital (One wire)
Output Pin: - D25

IR Sensor

Input: - 3.3V
Output Type: - Analog Voltage
Output Pin: - D14

Anemometer

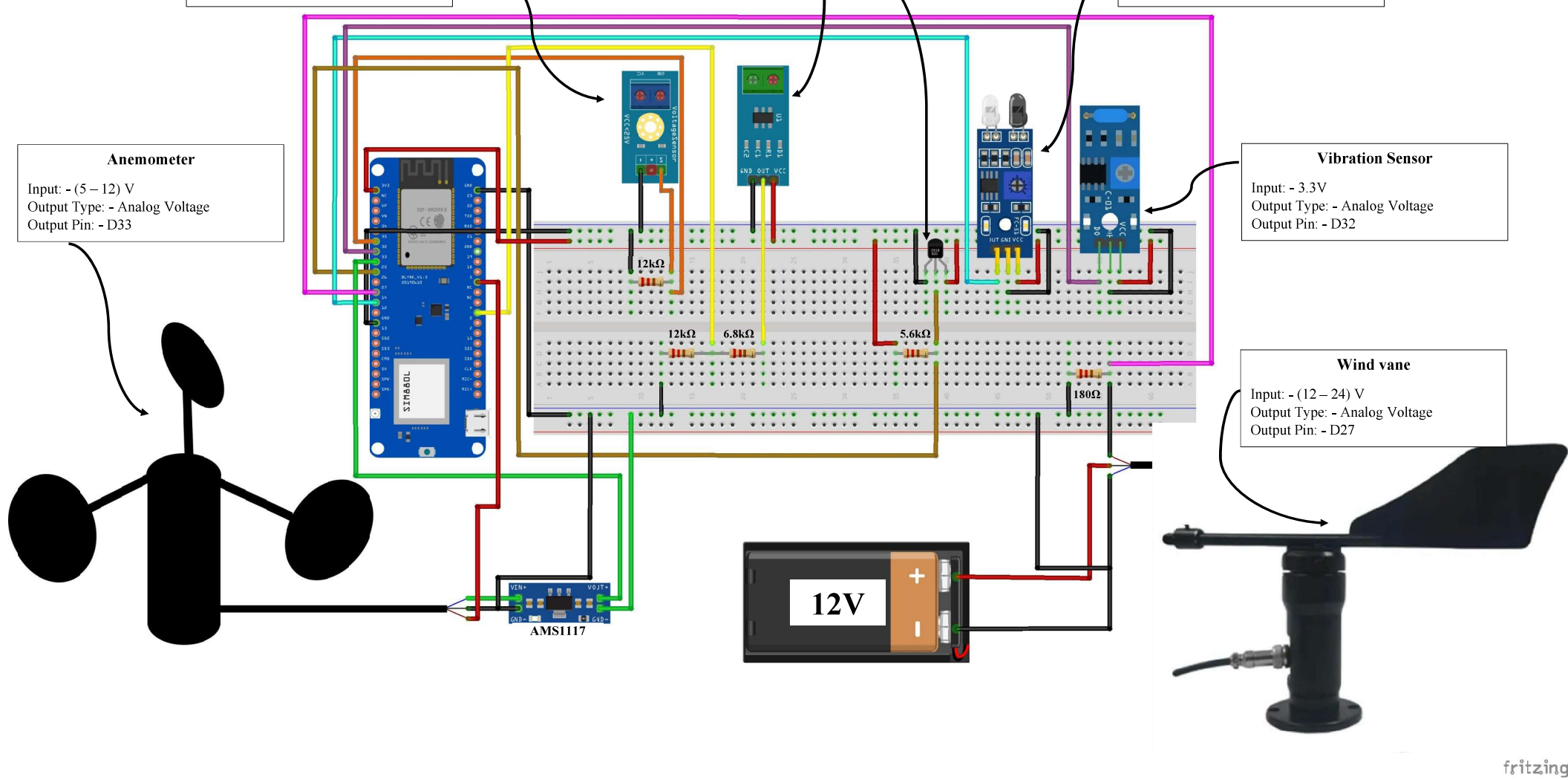
Input: - (5 – 12) V
Output Type: - Analog Voltage
Output Pin: - D33

Vibration Sensor

Input: - 3.3V
Output Type: - Analog Voltage
Output Pin: - D32

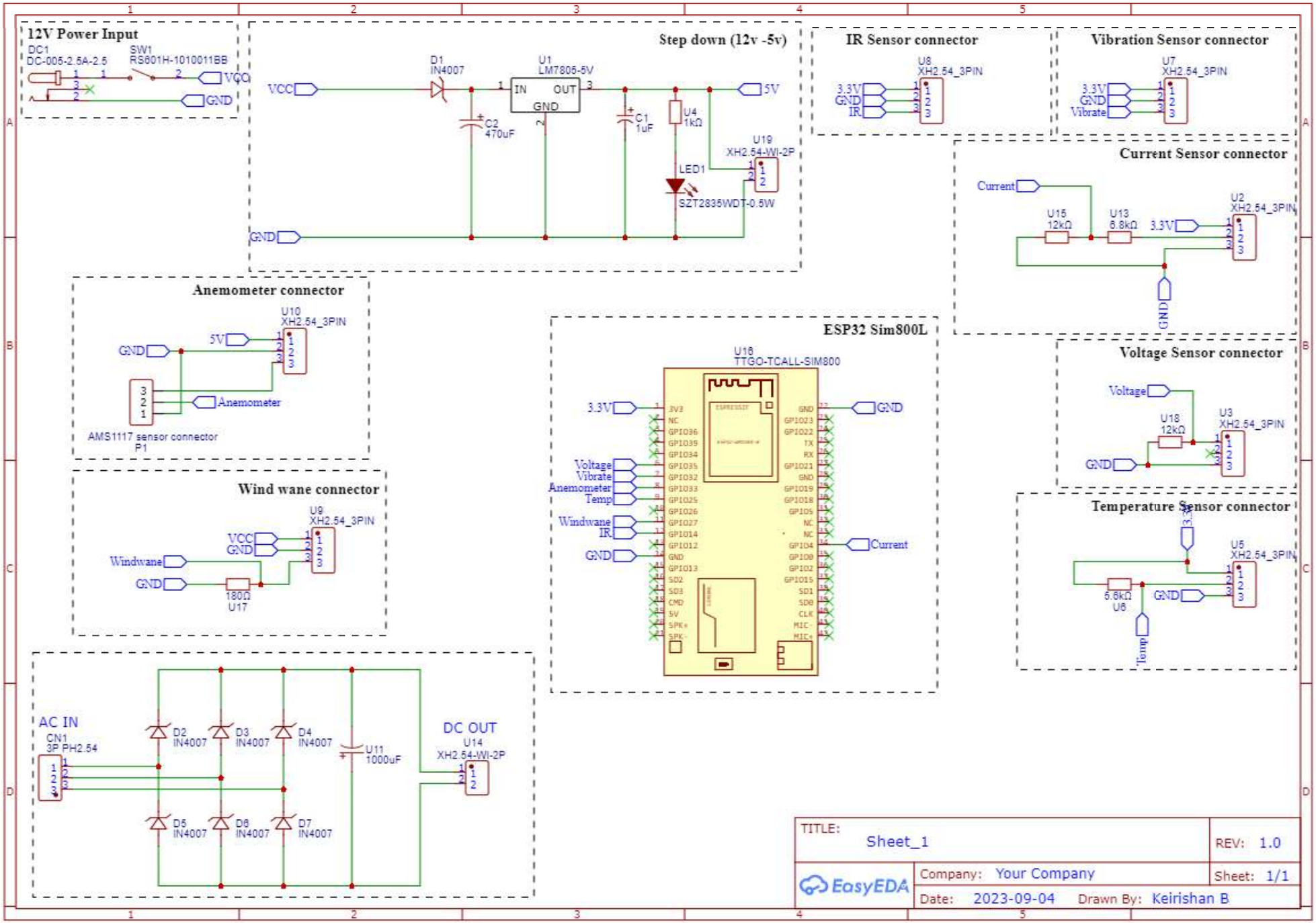
Wind vane

Input: - (12 – 24) V
Output Type: - Analog Voltage
Output Pin: - D27



fritzing

Schematic


12V Power Input
DC1
DC-005-2.5A-2.5
SW1
RS601H-1010011BB
VCC
GND
Step down (12v -5v)
D1
IN4007
U1
LM7805-5V
IN
OUT
GND
C2
470uF
C1
1uF
U4
1kΩ
5V
U19
XH2.54-WI-2P
LED1
SZT2835WDT-0.5W
IR Sensor connector
U8
XH2.54_3PIN
3.3V
GND
IR
Vibration Sensor connector
U7
XH2.54_3PIN
3.3V
GND
Vibrate
Current Sensor connector
Current
U15
12kΩ
U13
6.8kΩ
3.3V
U2
XH2.54_3PIN
GND
Anemometer connector
U10
XH2.54_3PIN
5V
GND
Anemometer
AMS1117 sensor connector
P1
ESP32 Sim800L
U16
TTGO-TCALL-SIM800
3.3V
GND
Voltage
Vibrate
Anemometer
Temp
Windwane
IR
GND
Current
Voltage Sensor connector
Voltage
U18
12kΩ
U3
XH2.54_3PIN
GND
Wind wane connector
U9
XH2.54_3PIN
VCC
GND
Windwane
GND
180Ω
U17
Temperature Sensor connector
5.6kΩ
U6
GND
U5
XH2.54_3PIN
Temp
AC IN
CN1
3P PH2.54
D2
IN4007
D3
IN4007
D4
IN4007
D5
IN4007
D6
IN4007
D7
IN4007
U11
1000uF
DC OUT
U14
XH2.54-WI-2P
TITLE:
Sheet_1
REV: 1.0
EasyEDA
Company: Your Company
Sheet: 1/1
Date: 2023-09-04
Drawn By: Keirishan B