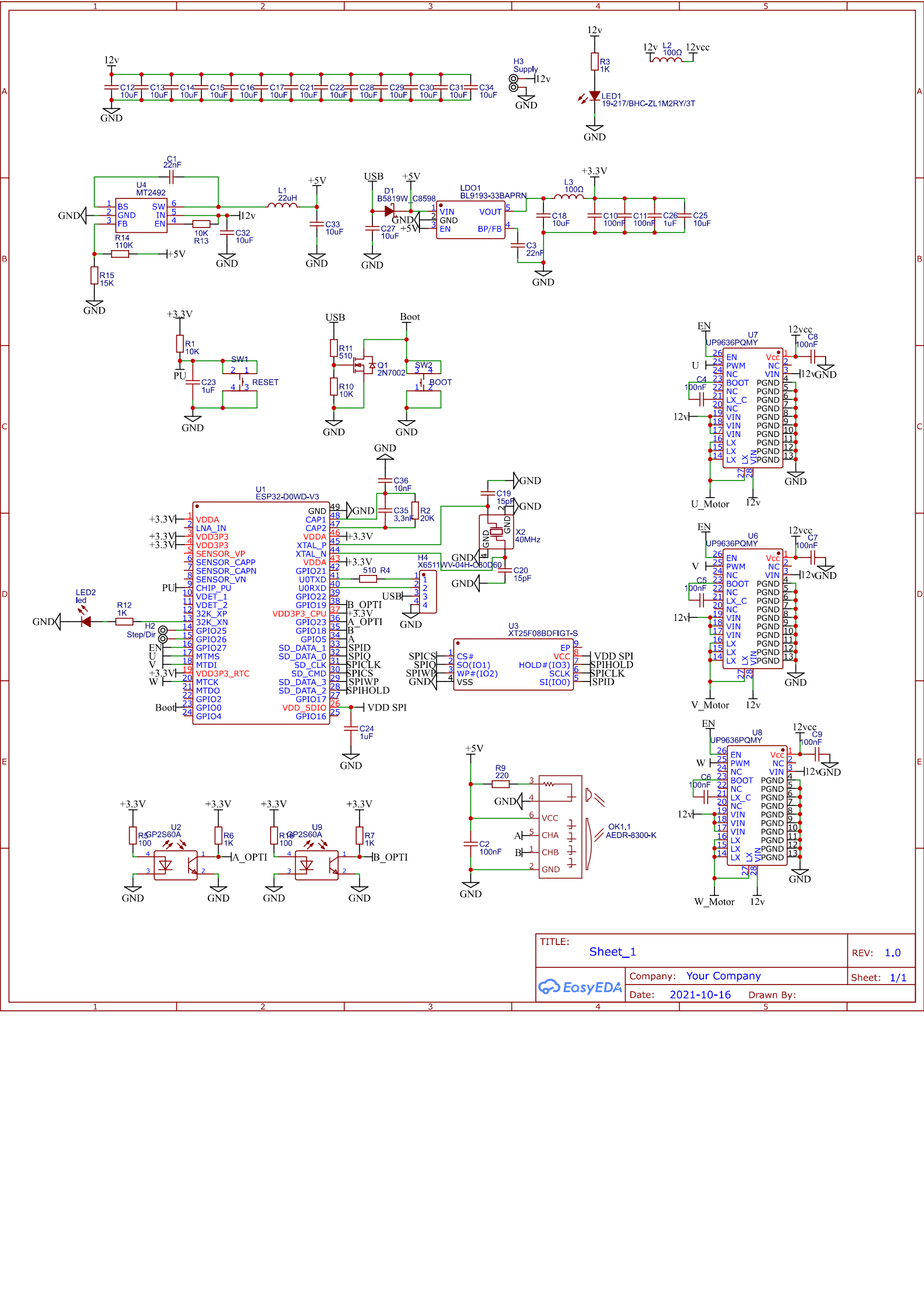
12v
C12 10uF
C13 10uF
C14 10uF
C15 10uF
C16 10uF
C17 10uF
C21 10uF
C22 10uF
C28 10uF
C29 10uF
C30 10uF
C31 10uF
C34 10uF
GND
H3
Supply
12v
GND
12v
R3
1K
LED1
19-217/BHC-ZL1M2RY/3T
GND
12v
L2
100Ω
12vcc
C1
22nF
U4
MT2492
BS
GND
FB
SW
IN
EN
L1
22uH
+5V
C33
10uF
GND
12v
C32
10uF
10K
R13
R14
110K
+5V
R15
15K
GND
USB
+5V
D1
B5819W_C8598
C27
10uF
GND
LDO1
BL9193-33BAPRN
VIN
GND
EN
VOUT
BP/FB
L3
100Ω
+3.3V
C18
10uF
C10
100nF
C11
100nF
C26
1uF
C25
10uF
C3
22nF
GND
+3.3V
R1
10K
PU
C23
1uF
SW1
RESET
GND
USB
Boot
R11
510
Q1
2N7002
SW2
BOOT
R10
10K
GND
GND
EN
U7
UP9636PQMY
12vcc
C8
100nF
U
C4
100nF
12v
U_Motor
12v
GND
U1
ESP32-D0WD-V3
VDDA
LNA_IN
VDD3P3
VDD3P3
SENSOR_VP
SENSOR_CAPP
SENSOR_CAPN
SENSOR_VN
CHIP_PU
VDET_1
VDET_2
32K_XP
32K_XN
GPIO25
GPIO26
GPIO27
MTMS
MTDI
VDD3P3_RTC
MTCK
MTDO
GPIO2
GPIO0
GPIO4
GND
CAP1
CAP2
VDDA
XTAL_P
XTAL_N
VDDA
GPIO21
U0TXD
U0RXD
GPIO22
GPIO19
VDD3P3_CPU
GPIO23
GPIO18
GPIO5
SD_DATA_1
SD_DATA_0
SD_CLK
SD_CMD
SD_DATA_3
SD_DATA_2
GPIO17
VDD_SDIO
GPIO16
C36
10nF
C35
3.3nF
R2
20K
+3.3V
+3.3V
510
R4
B_OPTI
+3.3V
A_OPTI
B
A
SPID
SPIQ
SPICLK
SPICS
SPIWP
SPIHOLD
VDD SPI
C24
1uF
GND
H4
X6511WV-04H-C60D60
USB
GND
C19
15pF
GND
X2
40MHz
GND
C20
15pF
GND
LED2
led
R12
1K
H2
Step/Dir
EN
U
V
W
Boot
U3
XT25F08BDFIGT-S
SPICS
SPIQ
SPIWP
GND
CS#
SO(IO1)
WP#(IO2)
VSS
EP
VCC
HOLD#(IO3)
SCLK
SI(IO0)
VDD SPI
SPIHOLD
SPICLK
SPID
EN
U6
UP9636PQMY
12vcc
C7
100nF
V
C5
100nF
12v
V_Motor
12v
GND
+3.3V
+3.3V
+3.3V
+3.3V
U2
GP2S60A
R5
100
R6
1K
A_OPTI
U9
GP2S60A
R8
100
R7
1K
B_OPTI
GND
GND
GND
GND
+5V
R9
220
GND
C2
100nF
VCC
CHA
CHB
GND
A
B
OK1.1
AEDR-8300-K
EN
U8
UP9636PQMY
12vcc
C9
100nF
W
C6
100nF
12v
W_Motor
12v
GND
TITLE:
Sheet_1
REV: 1.0
EasyEDA
Company: Your Company
Sheet: 1/1
Date: 2021-10-16
Drawn By: