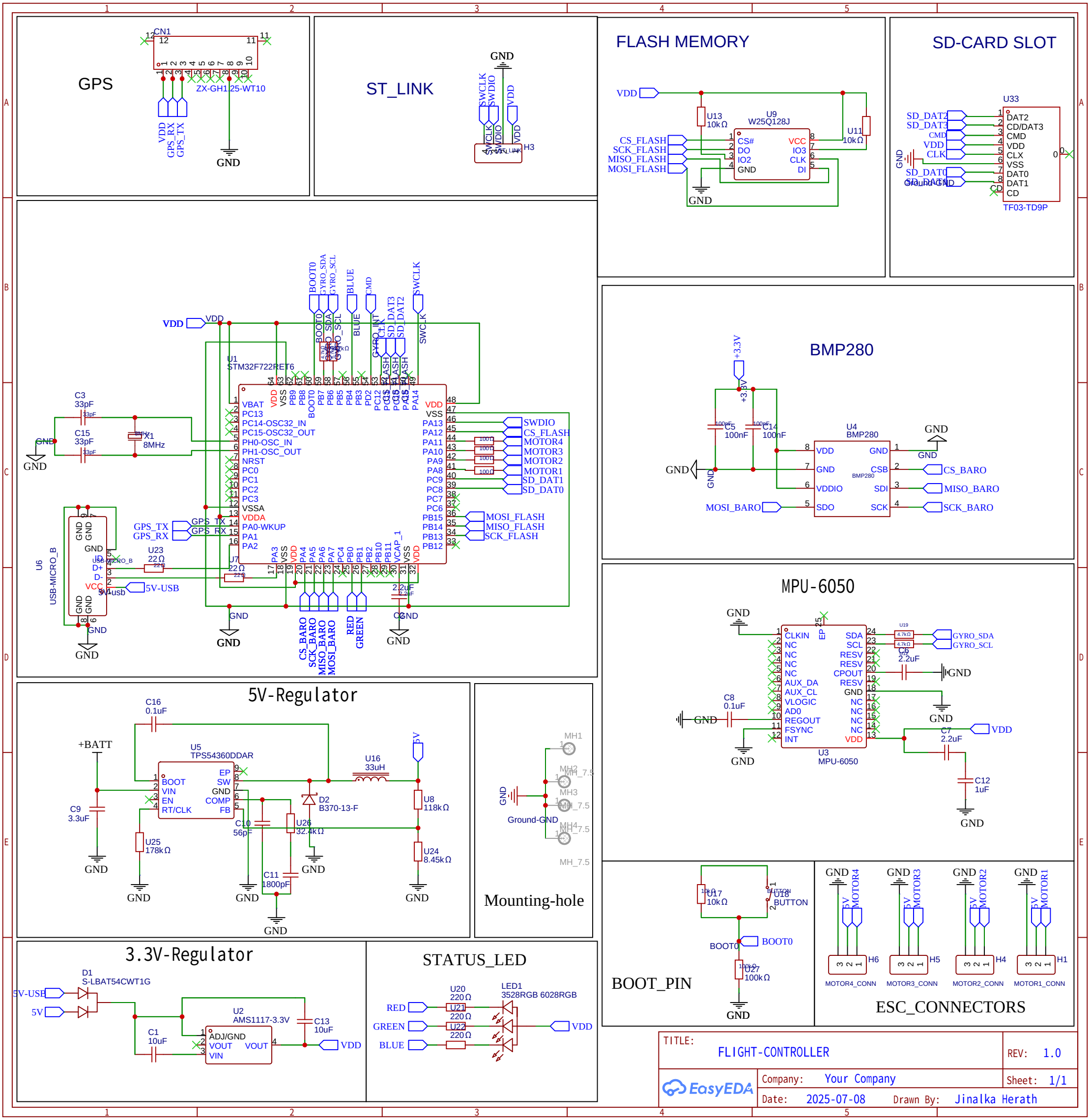
GPS
CN1
ZX-GH1.25-WT10
VDD
GPS_RX
GPS_TX
GND
ST_LINK
SWCLK
SWDIO
VDD
H3
FLASH MEMORY
U9
W25Q128J
U13
10kΩ
U11
10kΩ
CS_FLASH
SCK_FLASH
MISO_FLASH
MOSI_FLASH
CS#
DO
IO2
GND
VCC
IO3
CLK
DI
SD-CARD SLOT
U33
TF03-TD9P
SD_DAT2
SD_DAT3
CMD
VDD
CLK
SD_DAT0
SD_DAT1
CD
DAT2
CD/DAT3
DAT0
DAT1
U1
STM32F722RET6
VBAT
PC13
PC14-OSC32_IN
PC15-OSC32_OUT
PH0-OSC_IN
PH1-OSC_OUT
NRST
PC0
PC1
PC2
PC3
VSSA
VDDA
PA0-WKUP
PA1
PA2
PA13
PA12
PA11
PA10
PA9
PA8
PC9
PC8
PC7
PC6
PB15
PB14
PB13
PB12
SWDIO
CS_FLASH
MOTOR4
MOTOR3
MOTOR2
MOTOR1
SD_DAT1
SD_DAT0
MOSI_FLASH
MISO_FLASH
SCK_FLASH
BOOT0
GYRO_SDA
GYRO_SCL
BLUE
CMD
GYRO_INT
SD_DAT3
SD_DAT2
SWCLK
C3
33pF
C15
33pF
X1
8MHz
GPS_TX
GPS_RX
U6
USB-MICRO_B
U23
22Ω
U7
22Ω
5V-USB
CS_BARO
SCK_BARO
MISO_BARO
MOSI_BARO
RED
GREEN
2.2uF
C2
BMP280
U4
BMP280
+3.3V
C5
100nF
C14
100nF
VDD
GND
VDDIO
SDO
CSB
SDI
SCK
CS_BARO
MISO_BARO
SCK_BARO
MOSI_BARO
MPU-6050
U3
MPU-6050
CLKIN
NC
AUX_DA
AUX_CL
VLOGIC
AD0
REGOUT
FSYNC
INT
SDA
SCL
RESV
CPOUT
U19
4.7kΩ
GYRO_SDA
GYRO_SCL
C6
2.2uF
C8
0.1uF
C7
2.2uF
C12
1uF
5V-Regulator
C16
0.1uF
+BATT
U5
TPS54360DDAR
BOOT
VIN
EN
RT/CLK
EP
SW
COMP
FB
U16
33uH
D2
B370-13-F
C9
3.3uF
U25
178kΩ
C10
56pF
U26
32.4kΩ
C11
1800pF
U8
118kΩ
U24
8.45kΩ
5V
Mounting-hole
MH1
MH2
MH3
MH4
MH_7.5
Ground-GND
BOOT_PIN
U17
10kΩ
U18
BUTTON
BOOT0
U27
100kΩ
ESC_CONNECTORS
MOTOR4_CONN
MOTOR3_CONN
MOTOR2_CONN
MOTOR1_CONN
H6
H5
H4
H1
3.3V-Regulator
D1
S-LBAT54CWT1G
5V-USB
5V
U2
AMS1117-3.3V
ADJ/GND
VOUT
VIN
C1
10uF
C13
10uF
STATUS_LED
U20
220Ω
U21
220Ω
U22
220Ω
LED1
3528RGB 6028RGB
RED
GREEN
BLUE
TITLE:
FLIGHT-CONTROLLER
REV: 1.0
Company: Your Company
Sheet: 1/1
Date: 2025-07-08
Drawn By: Jinalka Herath
EasyEDA