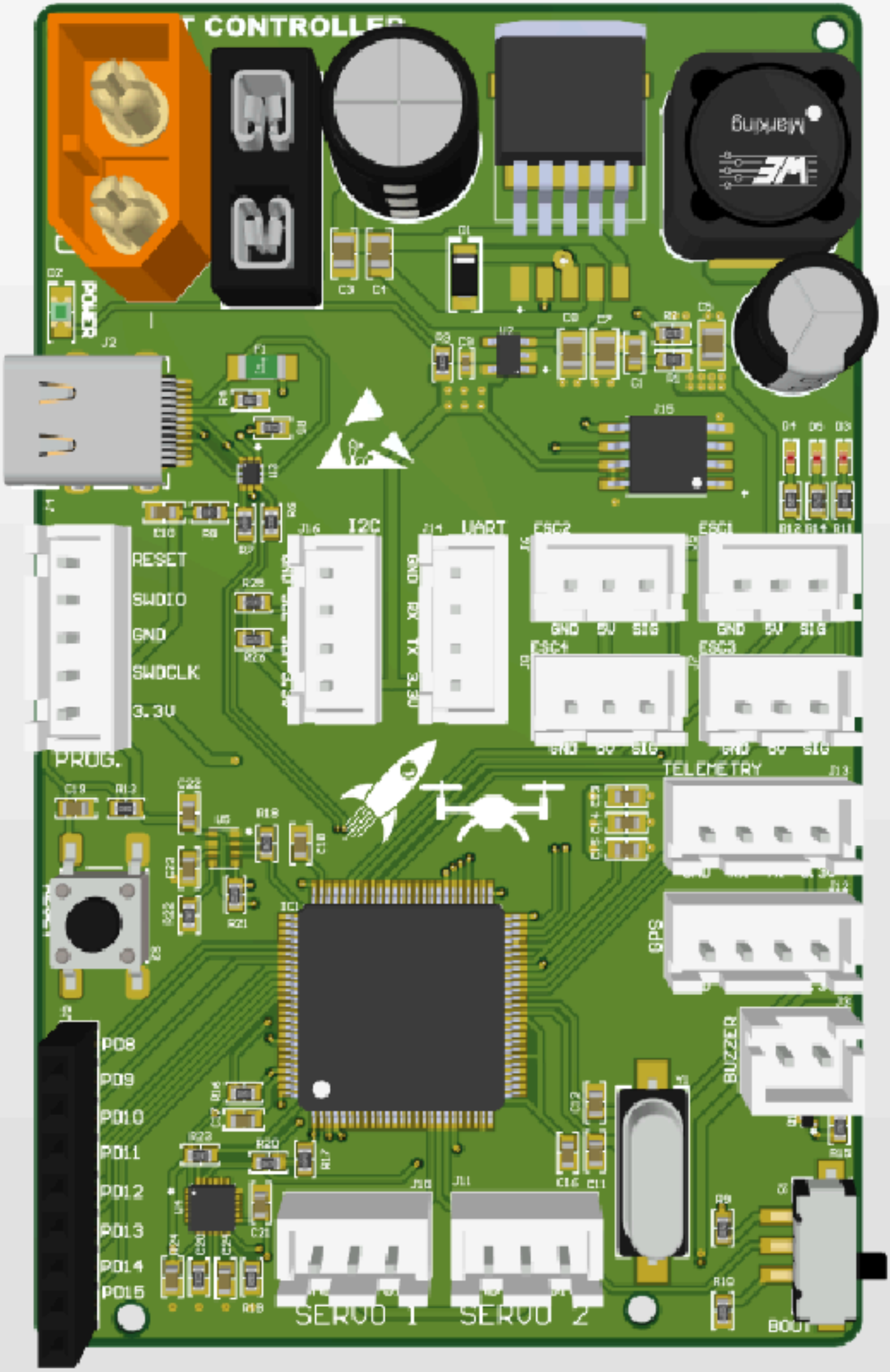
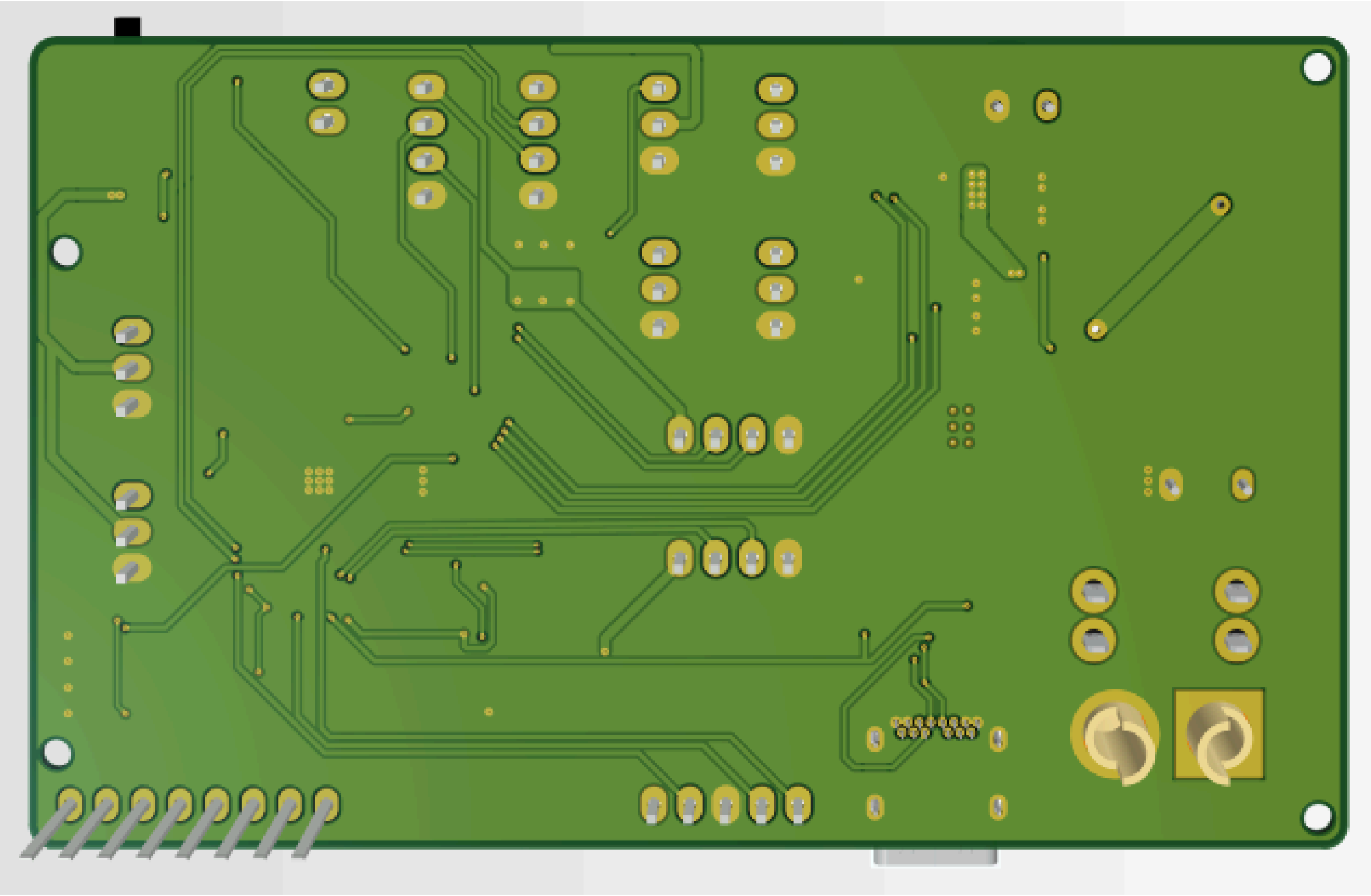
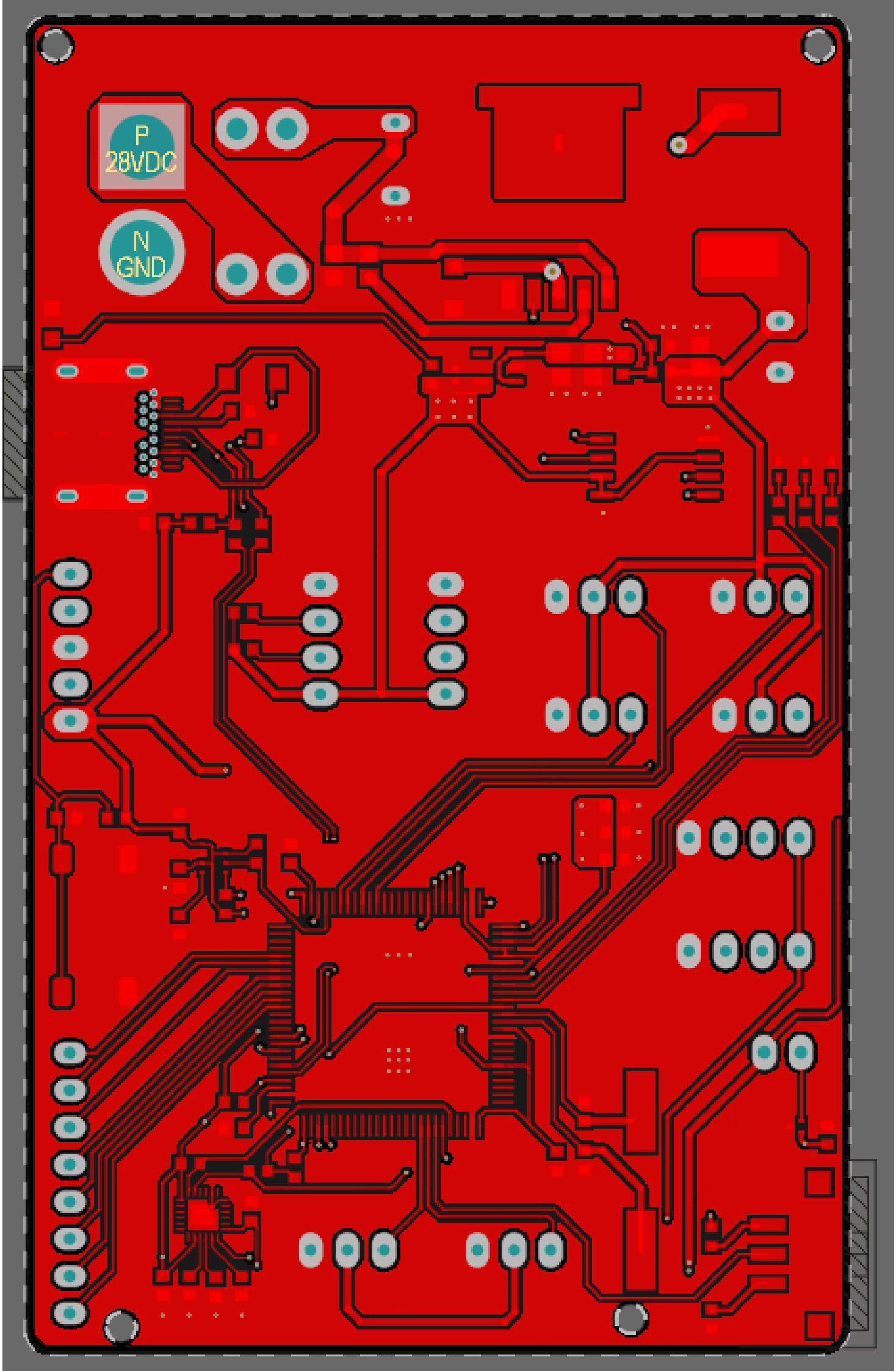
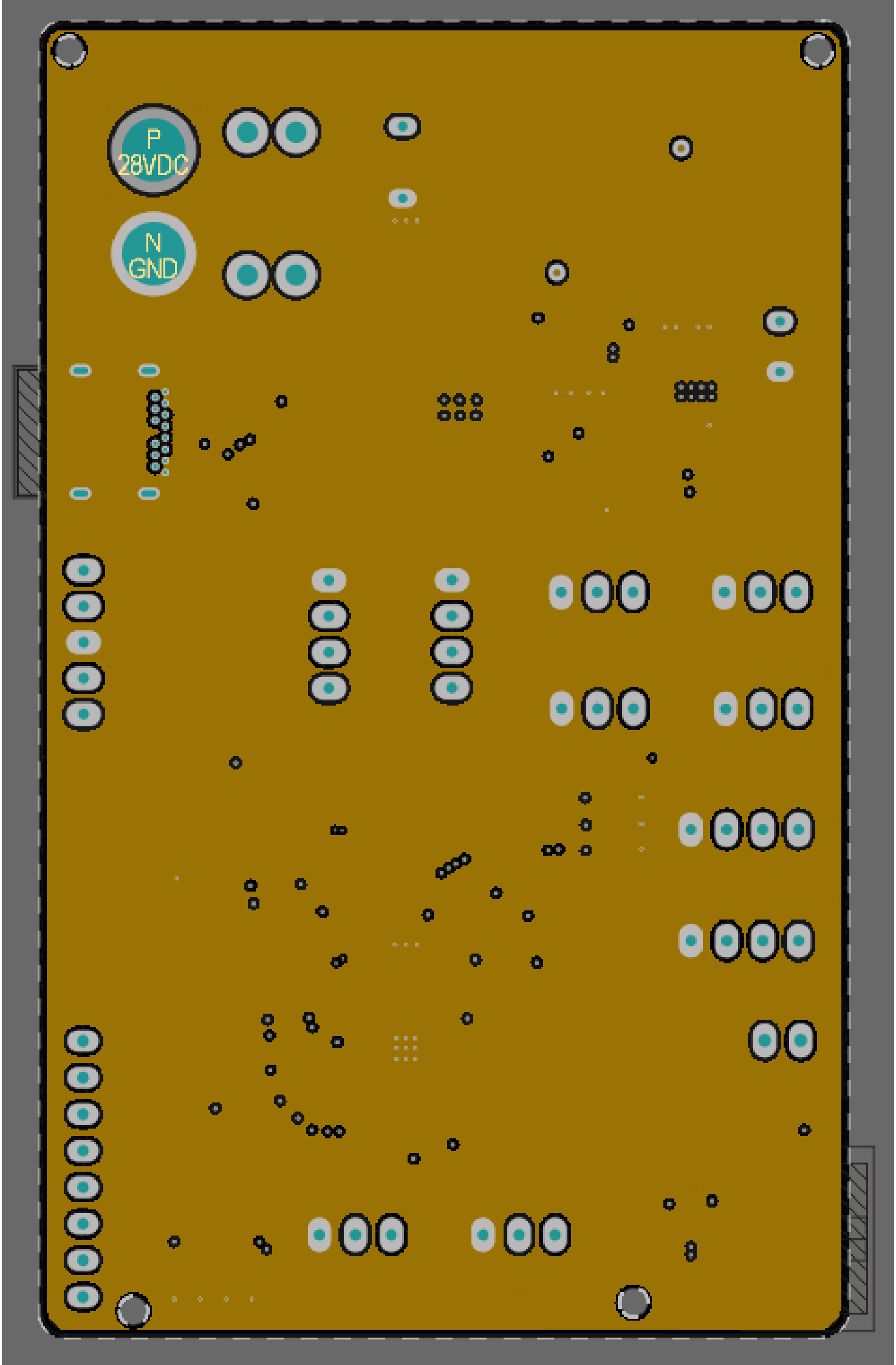
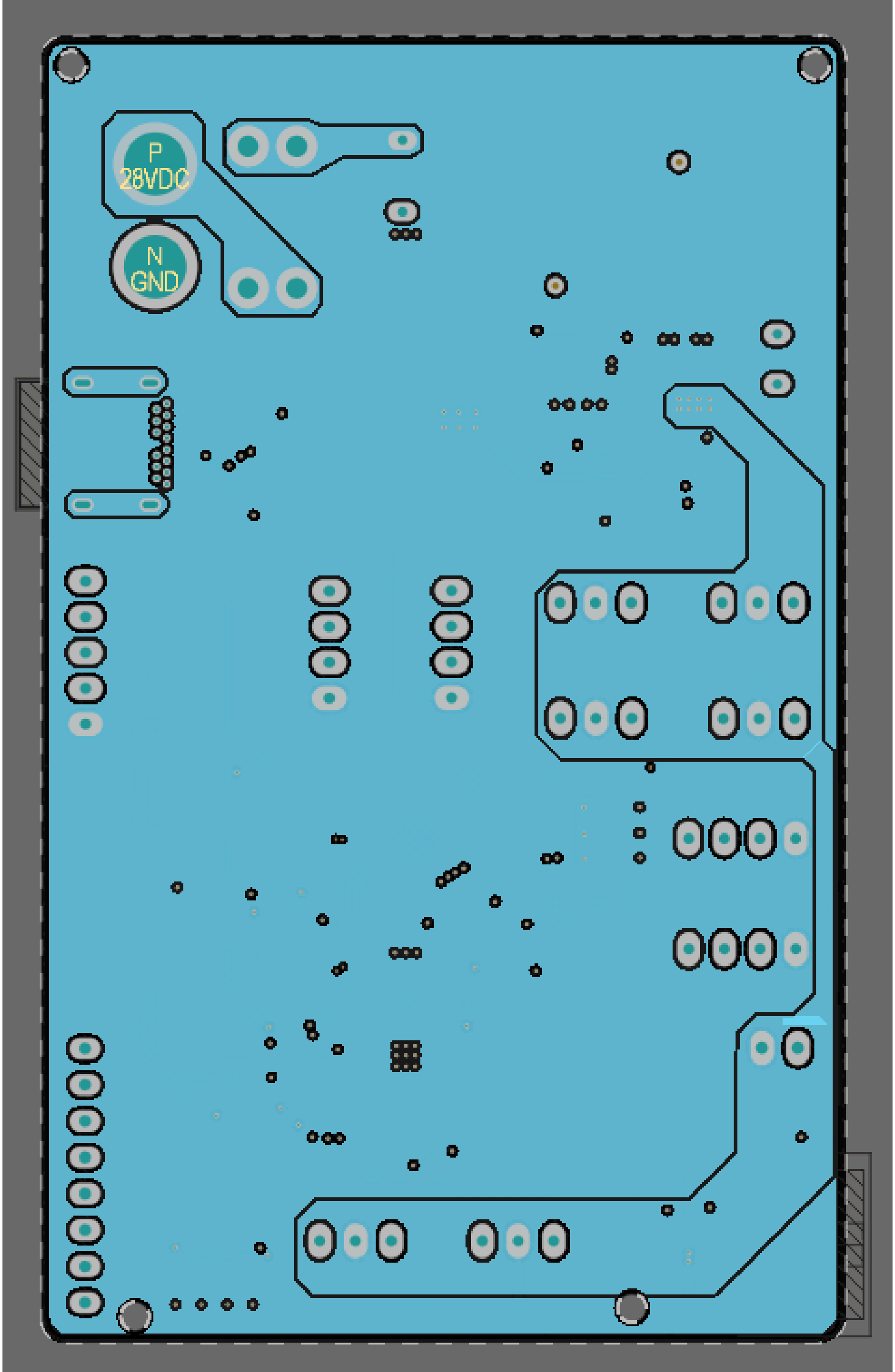
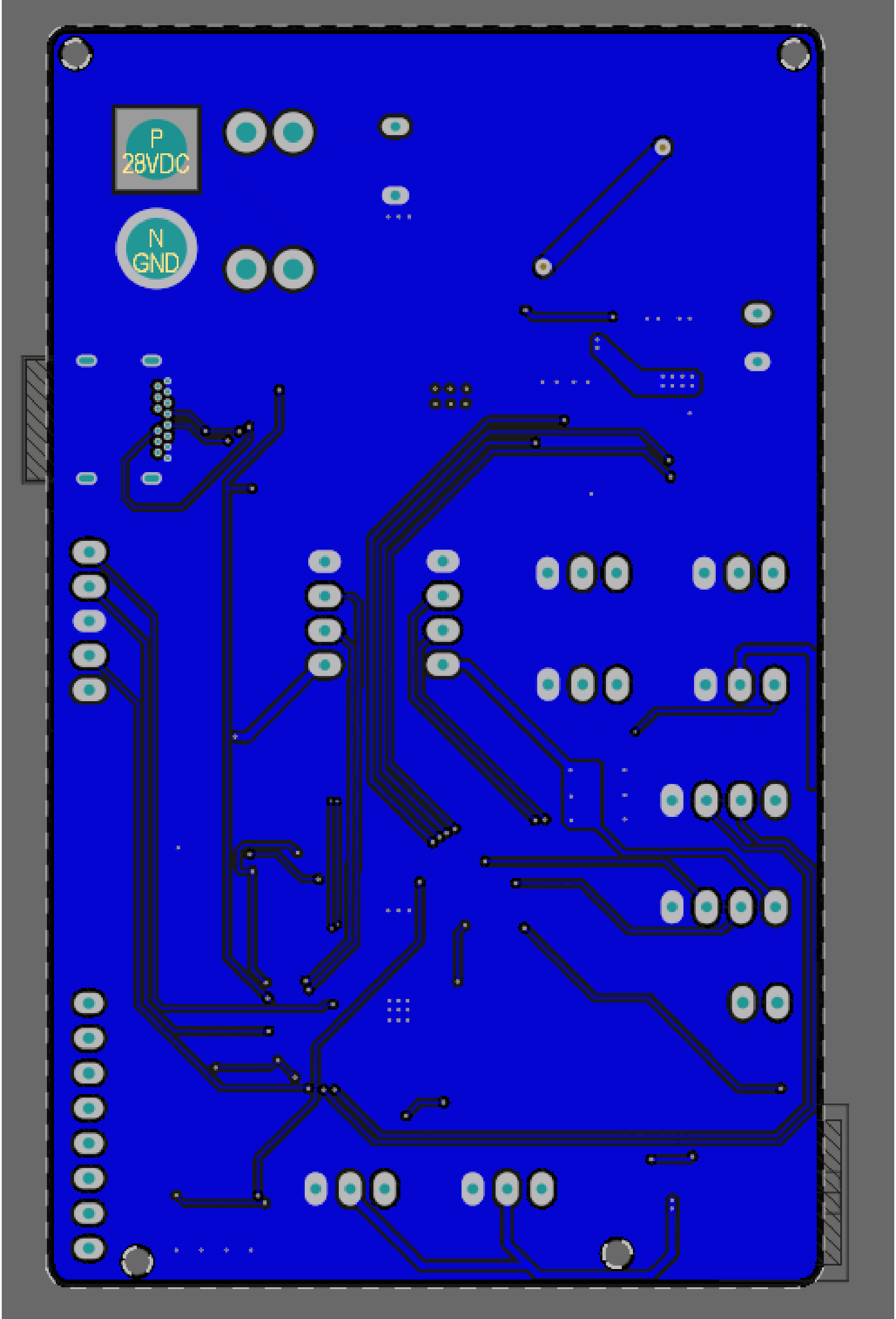

CONTROLLER
POWER
RESET
SWDIO
GND
SWDCLK
3.3V
PROG.
I2C
UART
ESC2
ESC1
ESC4
ESC3
GND 5V SIG
TELEMETRY
GPS
BUZZER
PD8
PD9
PD10
PD11
PD12
PD13
PD14
PD15
SERVO 1
SERVO 2
BOOT

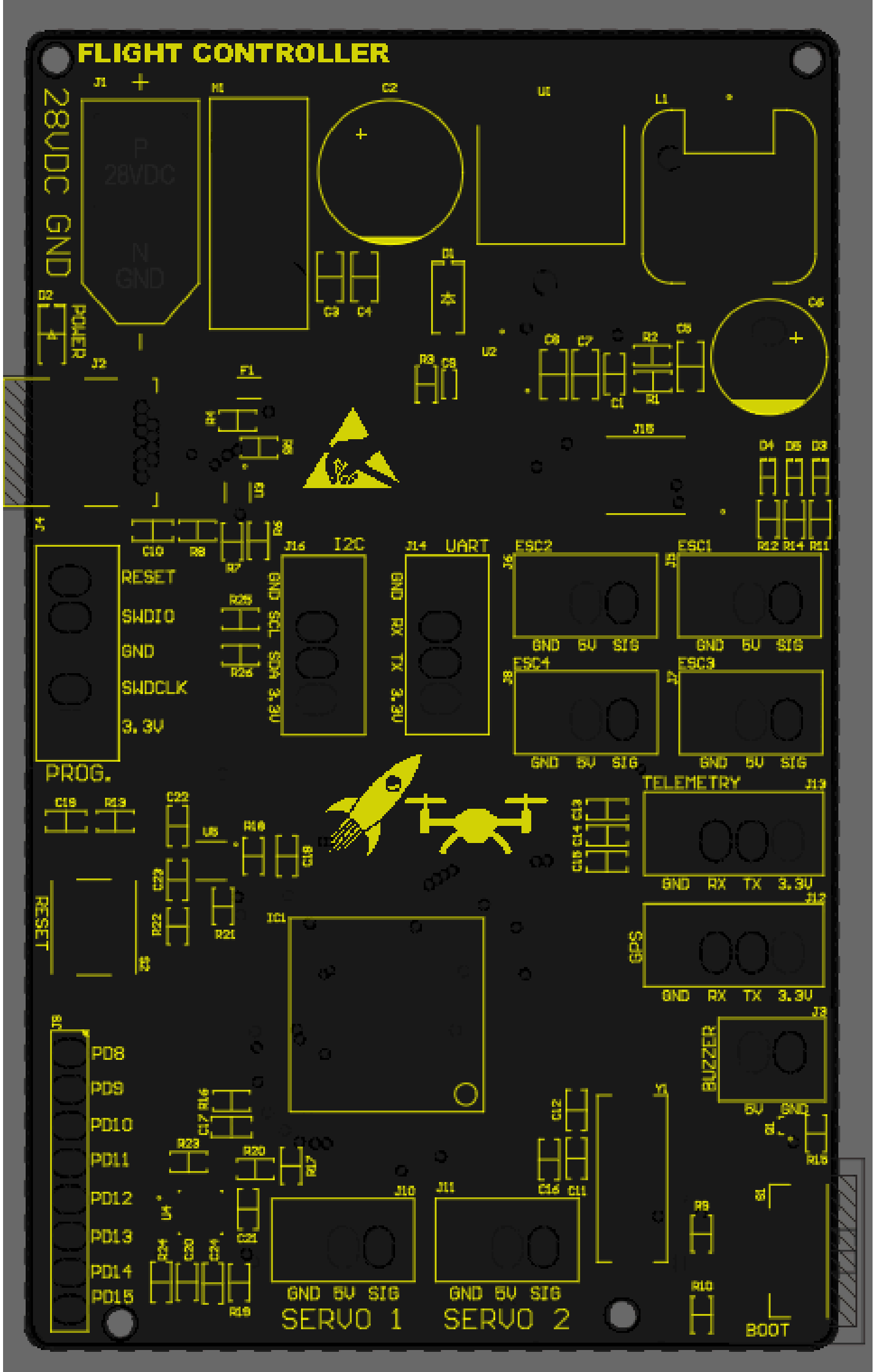


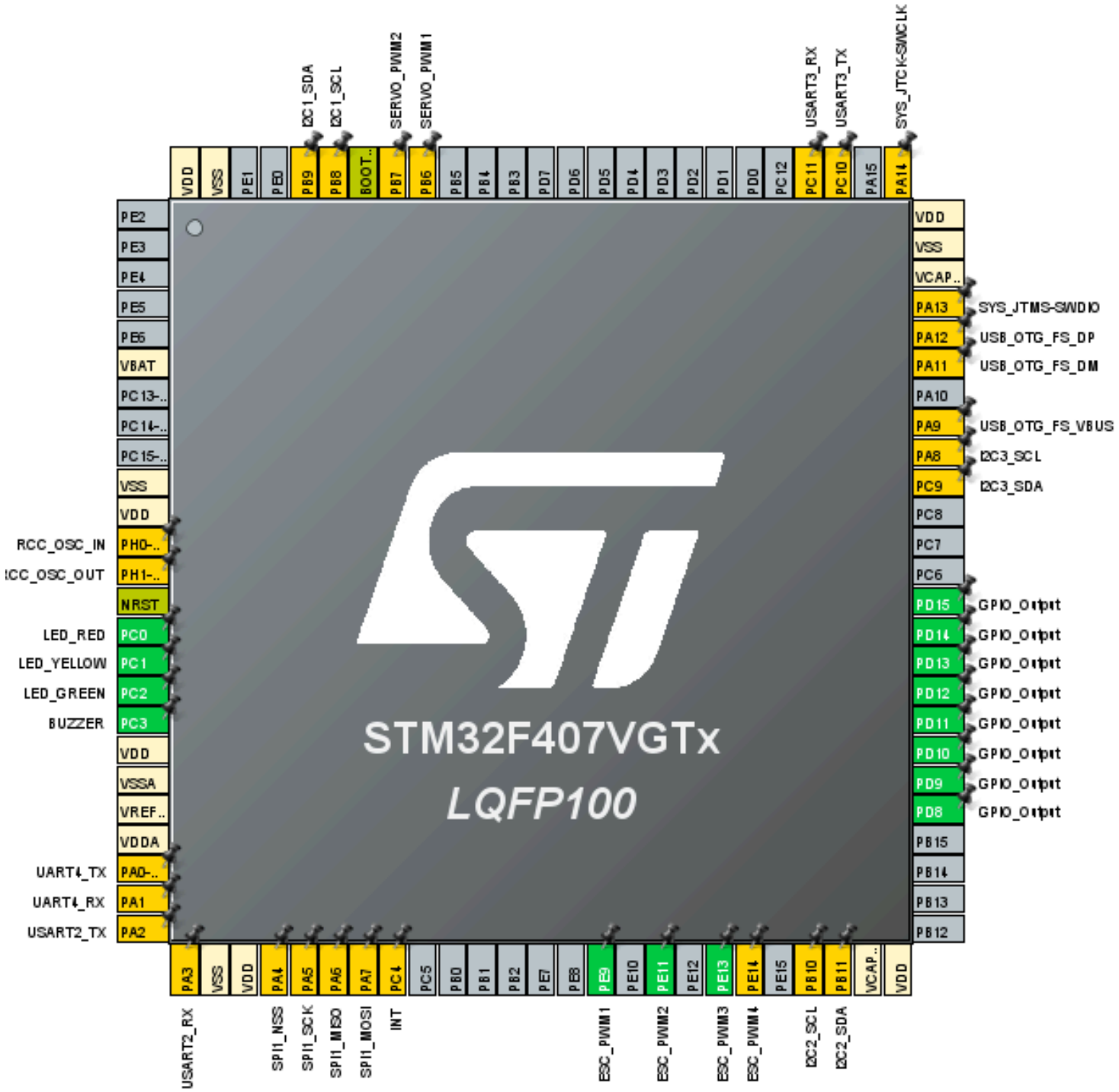

P
28VDC
N
GND

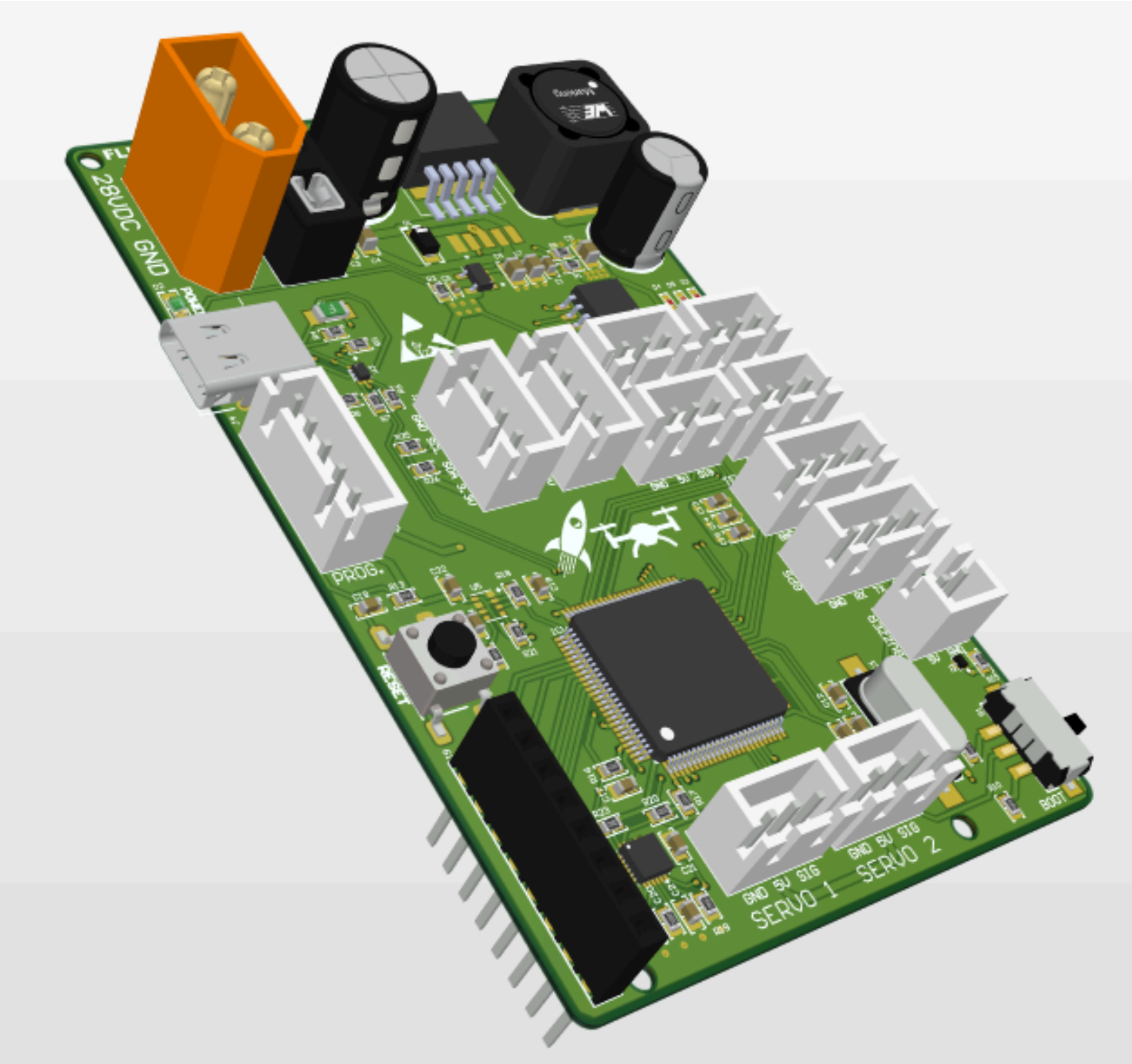

P
28VDC
N
GND

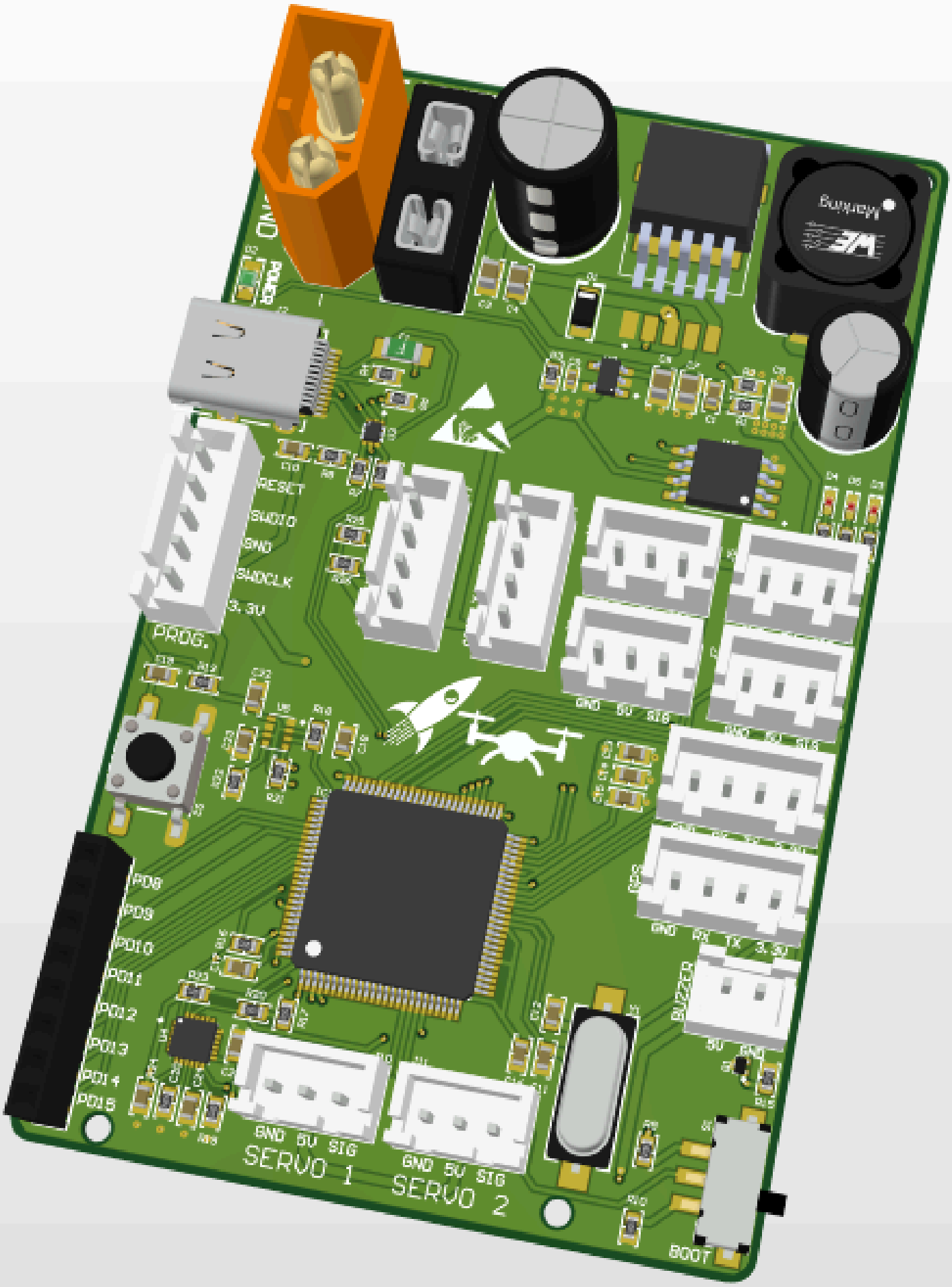

P
28VDC
N
GND


P
28VDC
N
GND


FLIGHT CONTROLLER
28VDC GND
J1
M1
C2
U1
L1
D1
C3
C4
D2
POWER
J2
C6
C9
C7
R2
C8
R3
C5
U2
C1
R1
F1
R4
R5
J15
D4
D5
D3
R12
R14
R11
J4
C10
R8
R7
R6
J16
I2C
J14
UART
J6
ESC2
J5
ESC1
RESET
SWDIO
GND
SWDCLK
3.3V
PROG.
GND
SCL
SDA
3.3V
R25
R26
GND
RX
TX
3.3V
GND 5V SIG
GND 5V SIG
J8
ESC4
J7
ESC3
GND 5V SIG
GND 5V SIG
C19
R13
C22
U5
R18
C18
C23
R22
R21
RESET
J9
TELEMETRY
J13
C13
C14
C15
GND RX TX 3.3V
IC1
J12
GPS
GND RX TX 3.3V
J3
BUZZER
5V GND
D8
R16
PD8
PD9
PD10
PD11
PD12
PD13
PD14
PD15
C17
R15
R23
R20
R17
U4
R24
C20
C24
C21
R19
J10
J11
C12
C16
C11
J4
R9
R10
S1
GND 5V SIG
GND 5V SIG
SERVO 1
SERVO 2
BOOT


STM32F407VGTx
LQFP100
VDD
VSS
PE1
PE0
PB9
PB8
BOOT..
PB7
PB6
PB5
PB4
PB3
PD7
PD6
PD5
PD4
PD3
PD2
PD1
PD0
PC12
PC11
PC10
PA15
PA14
I2C1_SDA
I2C1_SCL
SERVO_PWM2
SERVO_PWM1
USART3_RX
USART3_TX
SYS_JTCK-SWCLK
PE2
PE3
PE4
PE5
PE6
VBAT
PC13-..
PC14-..
PC15-..
VSS
VDD
PH0-..
PH1-..
NRST
PC0
PC1
PC2
PC3
VDD
VSSA
VREF..
VDDA
PA0-..
PA1
PA2
RCC_OSC_IN
RCC_OSC_OUT
LED_RED
LED_YELLOW
LED_GREEN
BUZZER
UART4_TX
UART4_RX
USART2_TX
VDD
VSS
VCAP..
PA13
PA12
PA11
PA10
PA9
PA8
PC9
PC8
PC7
PC6
PD15
PD14
PD13
PD12
PD11
PD10
PD9
PD8
PB15
PB14
PB13
PB12
SYS_JTMS-SWDIO
USB_OTG_FS_DP
USB_OTG_FS_DM
USB_OTG_FS_VBUS
I2C3_SCL
I2C3_SDA
GPIO_Output
GPIO_Output
GPIO_Output
GPIO_Output
GPIO_Output
GPIO_Output
GPIO_Output
GPIO_Output
PA3
VSS
VDD
PA4
PA5
PA6
PA7
PC4
PC5
PB0
PB1
PB2
PE7
PB8
PE9
PE10
PE11
PE12
PE13
PE14
PE15
PB10
PB11
VCAP..
VDD
USART2_RX
SPI1_NSS
SPI1_SCK
SPI1_MISO
SPI1_MOSI
INT
ESC_PWM1
ESC_PWM2
ESC_PWM3
ESC_PWM4
I2C2_SCL
I2C2_SDA


28VDC GND
PROG.
RESET
GND 5V SIG
SERVO 1
GND 5V SIG
SERVO 2
BOOT


POWER
RESET
SWDIO
GND
SWDCLK
3.3V
PROG.
PD8
PD9
PD10
PD11
PD12
PD13
PD14
PD15
GND 5V SIG
SERVO 1
GND 5V SIG
SERVO 2
GND 5V SIG
BUZZER
BOOT