VCC
VCC
VCC
VCC
VCC
VCC
VCC
FAZ_1

4
4
4

1
NetC7_2

2
+5V
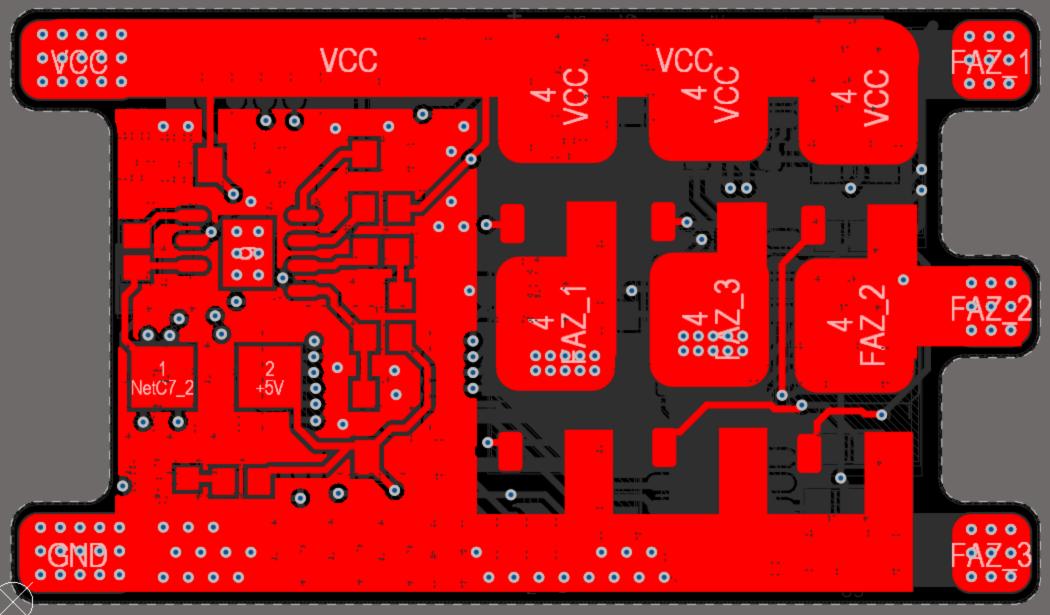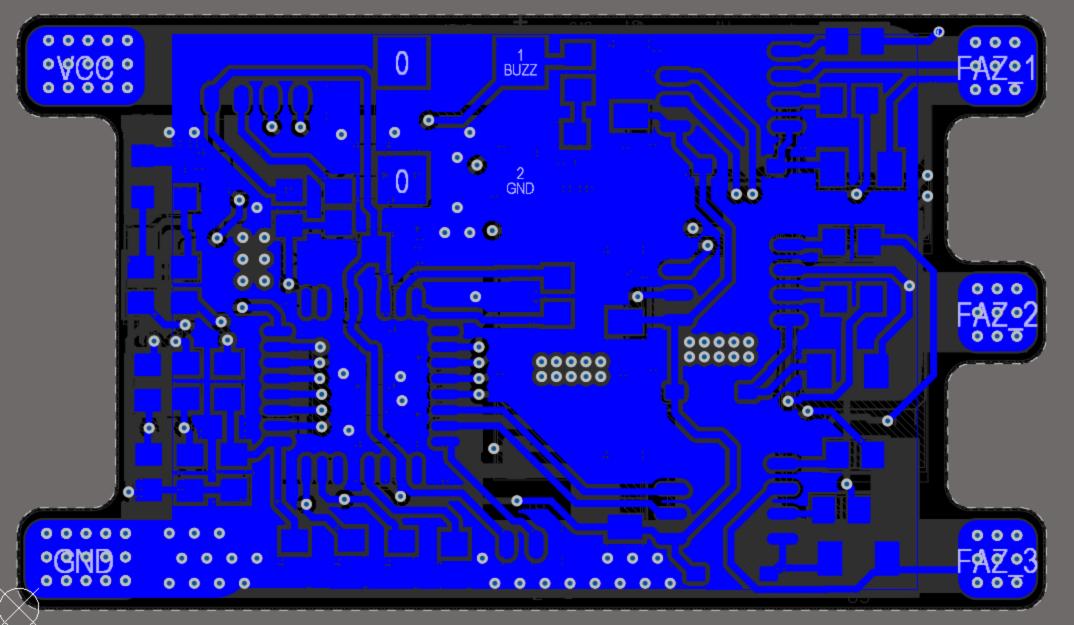
4
FAZ_1

4
FAZ_3

4
FAZ_2

FAZ_2

GND
FAZ_3

VCC

0

1
BUZZ

0

2
GND

FAZ 1

FAZ 2

GND

FAZ 3

PIC BASED DC MOTOR DRIVE DESIGN (ESC)

C7 10nF 50V

R7 100K

VCC

C8 10uF 50V

U10
EN IN
SS GND
COMP FB
MP2307DN

L1 10uH/4A +5V

R8 44.2K

R10 10K

C11 3.9nF 50V

R11 6.8K

C10 100nF 50V

C9 22uF 16V

+5V
R9 100
D4 KIRMIZI LED

R23 10K   R22 10K   R21 10K

FAZ 3   R20 33K   R19 33K
FAZ 2   R18 33K   R17 33K
FAZ 1   R16 33K   R15 33K

A0   A1   A2

X1
X1
R24 10K
X2

+5V
C13 100nF 50V

U11 ATMEGA328P

PD0
PD4
GND
VCC
GND
VCC
PB6
PB7

PC1
PC0
ADC7
GND
AREF
ADC6
AVCC
PB5

A1
A0

+5V
C12 100nF 50V

C14 100nF 50V   R25 10K   +5V
DTR   RESET

+5V
DTR
TX
RX
P2

+5V
PWM
P1

R14 100
KIRMIZI LED
D6

R12 100
KIRMIZI LED
D5

BUZ1 Buzzer
BUZZ
R13 100
D7 KIRMIZI LED

VCC
C1 10uF 50V

D1 1N4148
C4 2.2uF 50V

U1
HIN VCC VB
LIN HIN HO
COM LIN VS
LO
IR2101STRPBF

VCC
U2 IRLR7843TRPBF
R1 100
FAZ 1
R3 100
U7 IRLR7843TRPBF

VCC
C2 10uF 50V

D2 1N4148
C5 2.2uF 50V

U3
HIN VCC VB
LIN HIN HO
COM LIN VS
LO
IR2101STRPBF

VCC
U4 IRLR7843TRPBF
R2 100
FAZ 2
R5 100
U8 IRLR7843TRPBF

VCC
C3 10uF 50V

D3 1N4148
C6 2.2uF 50V

U5
HIN VCC VB
LIN HIN HO
COM LIN VS
LO
IR2101STRPBF

VCC
U6 IRLR7843TRPBF
R4 100
FAZ 3
R6 100
U9 IRLR7843TRPBF