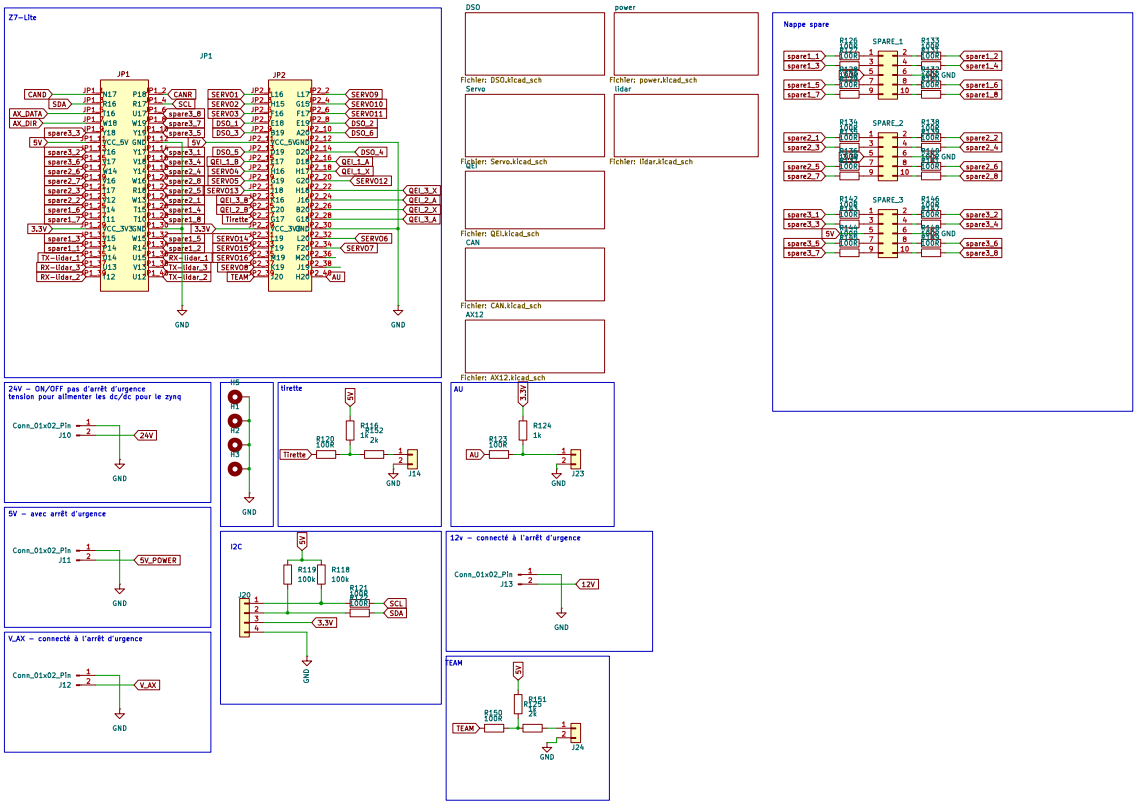
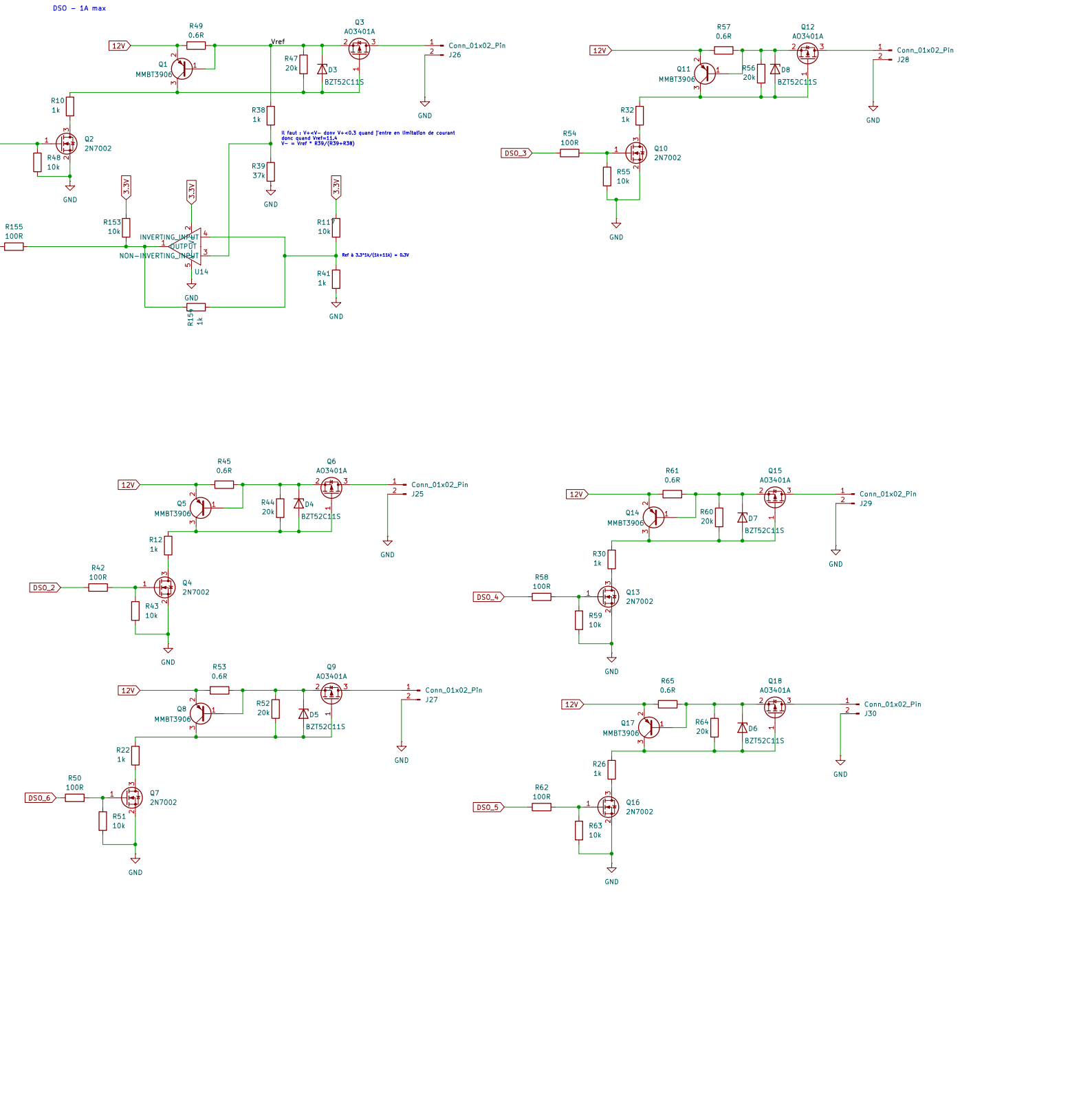
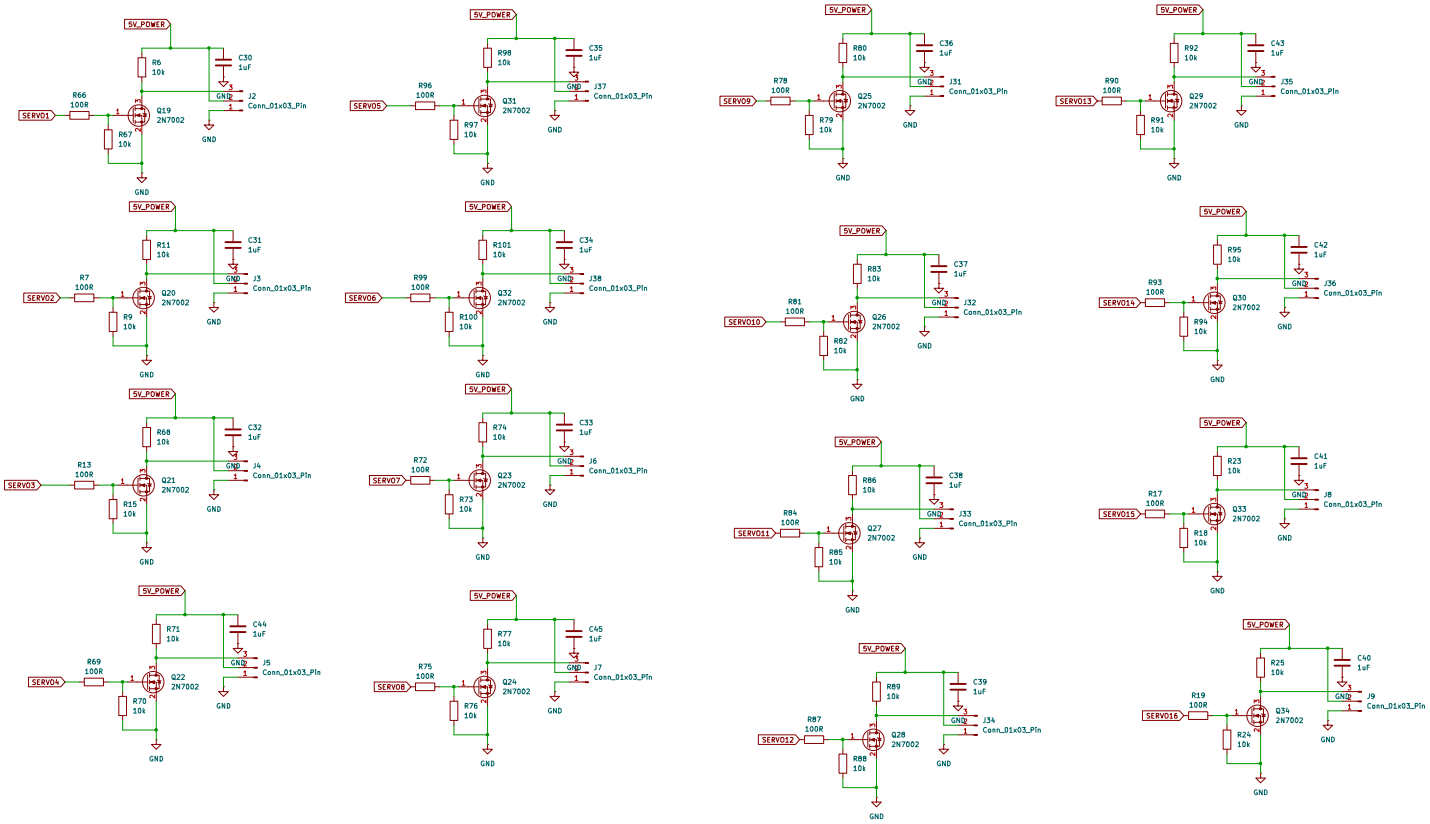
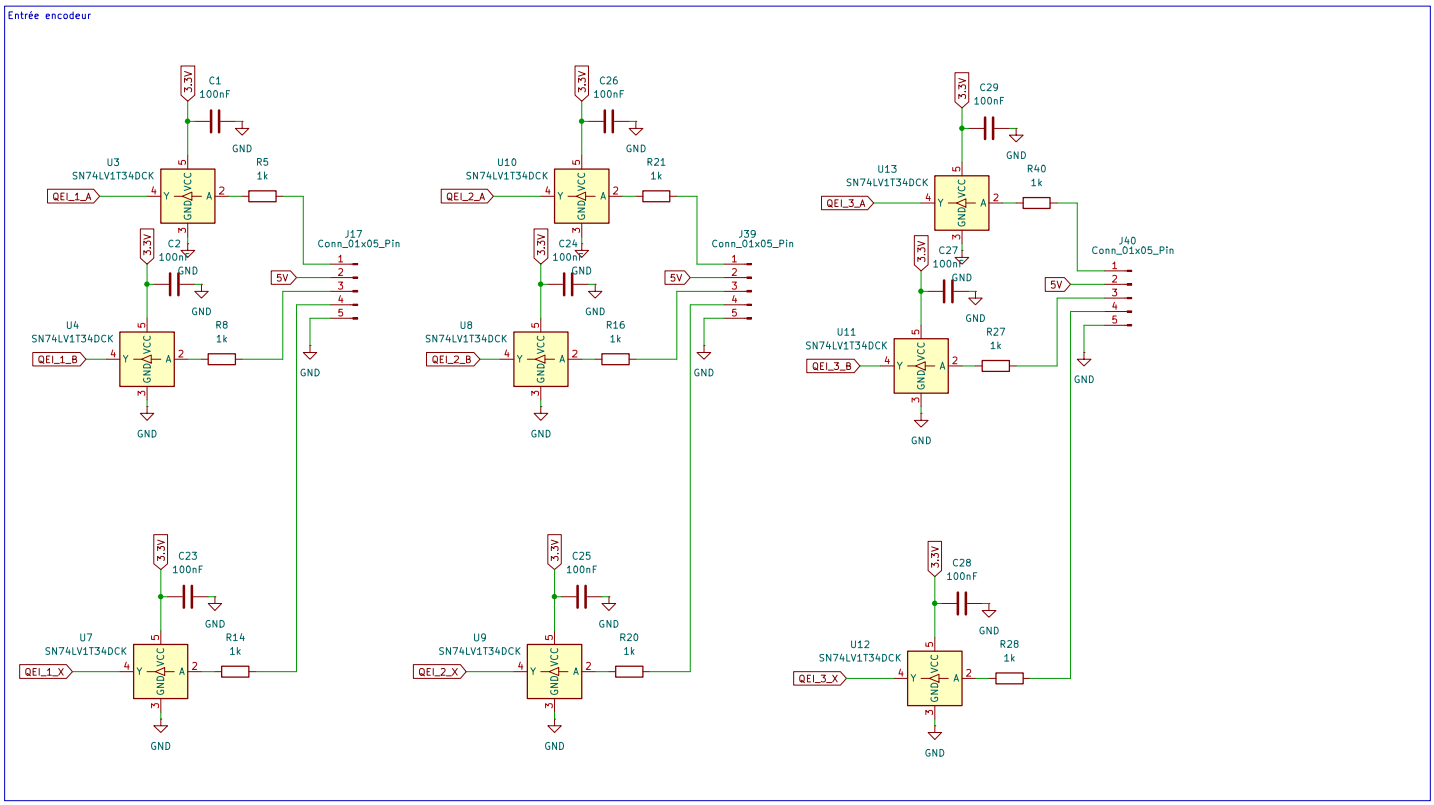
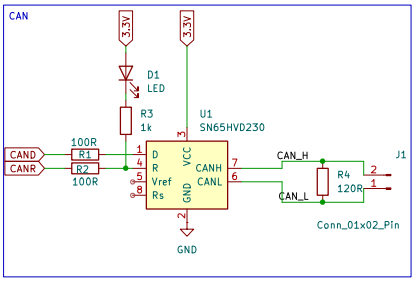
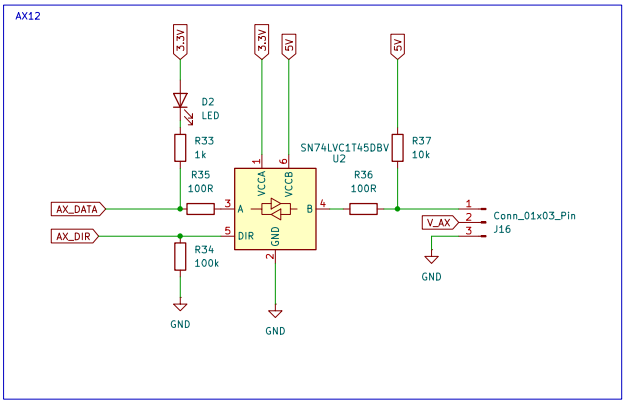

Z7-Lite
JP1
JP2
CAND
SDA
AX_DATA
AX_DIR
5V
3.3V
TX-lidar_1
RX-lidar_3
RX-lidar_2
SCL
CANR
spare3_8
spare3_7
spare3_5
spare3_4
spare2_8
spare2_6
spare2_4
spare2_1
spare1_4
spare1_8
spare1_5
spare1_2
RX-lidar_1
TX-lidar_3
TX-lidar_2
SERVO1
SERVO2
SERVO3
DSO_1
DSO_3
DSO_5
QEI_1_B
SERVO4
SERVO5
SERVO13
QEI_3_B
QEI_2_B
Ttrette
SERVO14
SERVO15
SERVO16
SERVO8
TEAM
SERVO9
SERVO10
SERVO11
DSO_2
DSO_6
DSO_4
QEI_1_A
QEI_1_X
SERVO12
QEI_3_X
QEI_2_A
QEI_2_X
QEI_3_A
SERVO6
SERVO7
AU
GND
DSO
Fichier: DSO.kicad_sch
power
Fichier: power.kicad_sch
Servo
Fichier: Servo.kicad_sch
lidar
Fichier: lidar.kicad_sch
QEI
Fichier: QEI.kicad_sch
CAN
Fichier: CAN.kicad_sch
AX12
Fichier: AX12.kicad_sch
Nappe spare
SPARE_1
SPARE_2
SPARE_3
spare1_1
spare1_3
spare1_5
spare1_7
spare1_2
spare1_4
spare1_6
spare1_8
spare2_1
spare2_3
spare2_5
spare2_7
spare2_2
spare2_4
spare2_6
spare2_8
spare3_1
spare3_3
spare3_5
spare3_7
spare3_2
spare3_4
spare3_6
spare3_8
24V — ON/OFF pas d'arrêt d'urgence
tension pour alimenter les dc/dc pour le zynq
Conn_01x02_Pin
J10
24V
5V — avec arrêt d'urgence
J11
5V_POWER
V_AX — connecté à l'arrêt d'urgence
J12
V_AX
H5
H1
H2
H3
Ttrette
R116
1k
R117
2k
R120
100R
J14
AU
R123
100R
R124
1k
J23
I2C
J20
R119
100k
R118
100k
R121
100R
SCL
SDA
3.3V
12v — connecté à l'arrêt d'urgence
J13
12V
TEAM
R150
100R
R151
R152
2k
J24

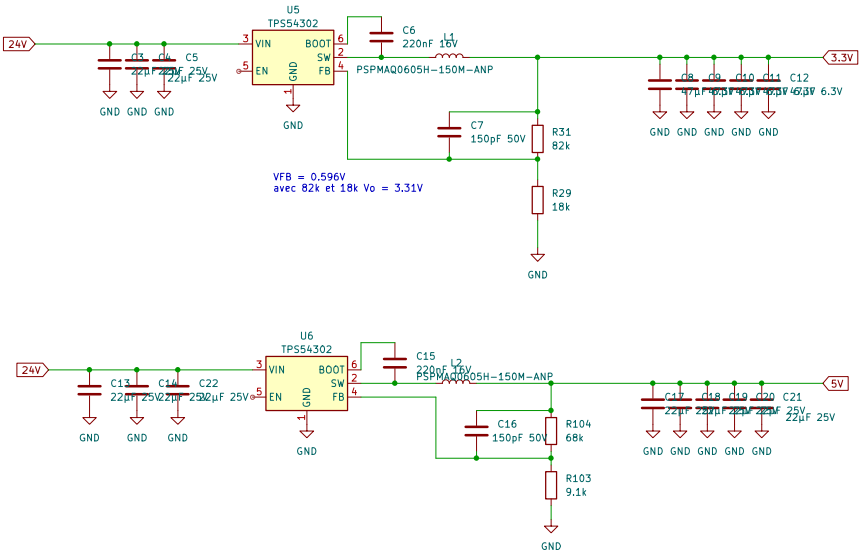

DSO - 1A max
12V
R49
0.6R
Q1
MMBT3906
Vref
R47
20k
D3
BZT52C11S
Q3
AO3401A
Conn_01x02_Pin
J26
GND
R10
1k
Q2
2N7002
R48
10k
R38
1k
Il faut : V+<V- donv V+<0,3 quand j'entre en limitation de courant
donc quand Vref=11.4
V- = Vref * R39/(R39+R38)
R39
37k
3.3V
R153
10k
R155
100R
INVERTING_INPUT
NON-INVERTING_INPUT
OUTPUT
U14
R157
1k
R117
10k
Ref à 3.3*1k/(1k+11k) = 0.3V
R41
1k
R57
0.6R
Q12
AO3401A
Q11
MMBT3906
R56
20k
D8
BZT52C11S
J28
R32
1k
R54
100R
DSO_3
Q10
2N7002
R55
10k
R45
0.6R
Q6
AO3401A
Q5
MMBT3906
R44
20k
D4
BZT52C11S
J25
R12
1k
R42
100R
DSO_2
Q4
2N7002
R43
10k
R53
0.6R
Q9
AO3401A
Q8
MMBT3906
R52
20k
D5
BZT52C11S
J27
R22
1k
R50
100R
DSO_6
Q7
2N7002
R51
10k
R61
0.6R
Q15
AO3401A
Q14
MMBT3906
R60
20k
D7
BZT52C11S
J29
R30
1k
R58
100R
DSO_4
Q13
2N7002
R59
10k
R65
0.6R
Q18
AO3401A
Q17
MMBT3906
R64
20k
D6
BZT52C11S
J30
R26
1k
R62
100R
DSO_5
Q16
2N7002
R63
10k


5V_POWER
R6
10k
C30
1uF
R66
100R
SERVO1
Q19
2N7002
R67
10k
J2
Conn_01x03_Pin
GND
R11
10k
C31
1uF
R7
100R
SERVO2
Q20
2N7002
R9
10k
J3
R68
10k
C32
1uF
R13
100R
SERVO3
Q21
2N7002
R15
10k
J4
R71
10k
C44
1uF
R69
100R
SERVO4
Q22
2N7002
R70
10k
J5
R98
10k
C35
1uF
R96
100R
SERVO5
Q31
2N7002
R97
10k
J37
R101
10k
C34
1uF
R99
100R
SERVO6
Q32
2N7002
R100
10k
J38
R74
10k
C33
1uF
R72
100R
SERVO7
Q23
2N7002
R73
10k
J6
R77
10k
C45
1uF
R75
100R
SERVO8
Q24
2N7002
R76
10k
J7
R80
10k
C36
1uF
R78
100R
SERVO9
Q25
2N7002
R79
10k
J31
R83
10k
C37
1uF
R81
100R
SERVO10
Q26
2N7002
R82
10k
J32
R86
10k
C38
1uF
R84
100R
SERVO11
Q27
2N7002
R85
10k
J33
R89
10k
C39
1uF
R87
100R
SERVO12
Q28
2N7002
R88
10k
J34
R92
10k
C43
1uF
R90
100R
SERVO13
Q29
2N7002
R91
10k
J35
R95
10k
C42
1uF
R93
100R
SERVO14
Q30
2N7002
R94
10k
J36
R23
10k
C41
1uF
R17
100R
SERVO15
Q33
2N7002
R18
10k
J8
R25
10k
C40
1uF
R19
100R
SERVO16
Q34
2N7002
R24
10k
J9

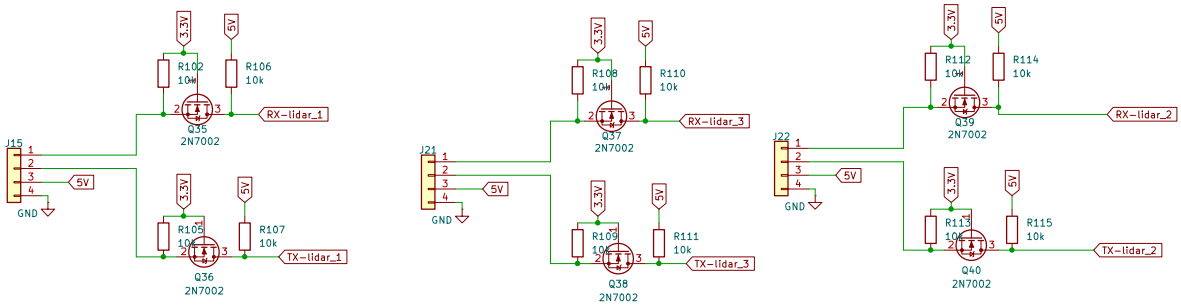

Entrée encodeur
3.3V
C1
100nF
GND
U3
SN74LV1T34DCK
R5
1k
QEI_1_A
J17
Conn_01x05_Pin
5V
C2
100nF
U4
R8
QEI_1_B
C23
U7
R14
QEI_1_X
C26
U10
R21
QEI_2_A
J39
C24
U8
R16
QEI_2_B
C25
U9
R20
QEI_2_X
C29
U13
R40
QEI_3_A
J40
C27
U11
R27
QEI_3_B
C28
U12
R28
QEI_3_X


CAN
3.3V
3.3V
D1
LED
R3
1k
U1
SN65HVD230
100R
CAND
R1
CANR
R2
100R
1
4
5
8
D
R
Vref
Rs
VCC
GND
CANH
CANL
3
2
7
6
CAN_H
CAN_L
R4
120R
J1
2
1
Conn_01x02_Pin
GND


AX12
3.3V
D2
LED
R33
1k
R35
100R
AX_DATA
AX_DIR
R34
100k
GND
3.3V
5V
SN74LVC1T45DBV
U2
VCCA
VCCB
A
B
DIR
GND
GND
5V
R37
10k
R36
100R
V_AX
Conn_01x03_Pin
J16
GND


U5
TPS54302
VIN
EN
BOOT
SW
FB
GND
C6
220nF 16V
L1
PSPMAQ0605H-150M-ANP
C3
C4
C5
22µF 25V
C7
150pF 50V
R31
82k
R29
18k
C8
C9
C10
C11
C12
3.3V
VFB = 0.596V
avec 82k et 18k Vo = 3.31V
24V
GND

U6
TPS54302
VIN
EN
BOOT
SW
FB
GND
C15
220nF 16V
L2
PSPMAQ0605H-150M-ANP
C13
C14
C22
22µF 25V
C16
150pF 50V
R104
68k
R103
9.1k
C17
C18
C19
C20
C21
5V
24V
GND


J15
1
2
3
4
5V
GND
3.3V
5V
R102
10k
R106
10k
Q35
2N7002
RX-lidar_1
R105
10k
R107
10k
Q36
2N7002
TX-lidar_1
J21
1
2
3
4
5V
GND
R108
10k
R110
10k
Q37
2N7002
RX-lidar_3
R109
10k
R111
10k
Q38
2N7002
TX-lidar_3
J22
1
2
3
4
5V
GND
R112
10k
R114
10k
Q39
2N7002
RX-lidar_2
R113
10k
R115
10k
Q40
2N7002
TX-lidar_2