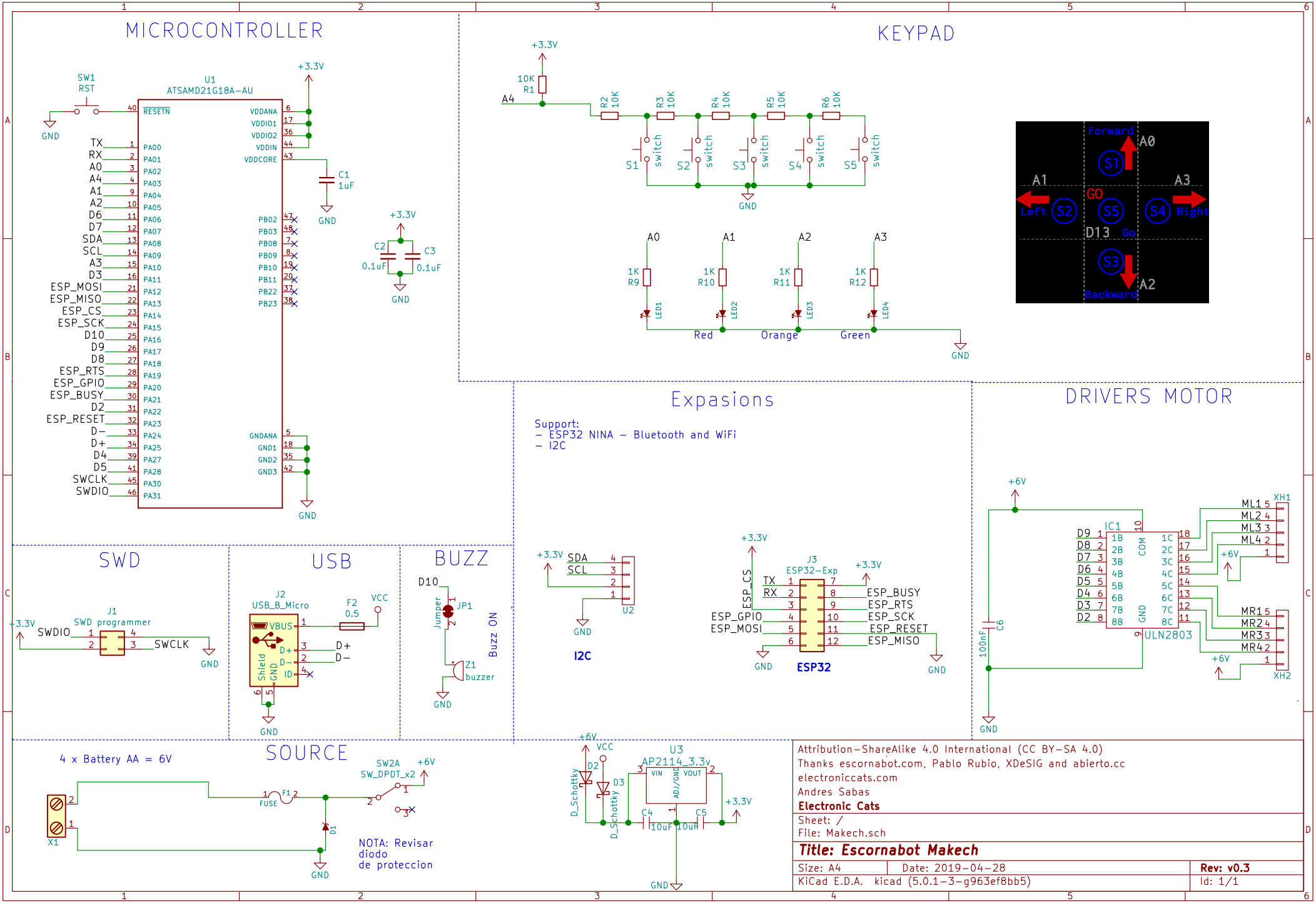
MICROCONTROLLER
U1
ATSAMD21G18A-AU
SW1
RST
GND
+3.3V
C1
1uF
C2
0.1uF
C3
0.1uF
TX
RX
A0
A4
A1
A2
D6
D7
SDA
SCL
A3
D3
ESP_MOSI
ESP_MISO
ESP_CS
ESP_SCK
D10
D9
D8
ESP_RTS
ESP_GPIO
ESP_BUSY
D2
ESP_RESET
D−
D+
D4
D5
SWCLK
SWDIO
KEYPAD
10K
R1
R2 10K
R3 10K
R4 10K
R5 10K
R6 10K
S1
S2
S3
S4
S5
switch
1K
R9
R10
R11
R12
LED1
LED2
LED3
LED4
Red
Orange
Green
Forward
Left
Right
Backward
GO
D13
Go
Expasions
Support:
– ESP32 NINA – Bluetooth and WiFi
– I2C
SDA
SCL
U2
I2C
J3
ESP32-Exp
ESP_BUSY
ESP_RTS
ESP_SCK
ESP_RESET
ESP_MISO
ESP_GPIO
ESP_MOSI
ESP32
DRIVERS MOTOR
+6V
IC1
ULN2803
COM
GND
C6
100nF
XH1
XH2
ML1
ML2
ML3
ML4
MR1
MR2
MR3
MR4
SWD
J1
SWD programmer
SWDIO
SWCLK
USB
J2
USB_B_Micro
VBUS
Shield
F2
0.5
VCC
D+
D−
ID
BUZZ
D10
JP1
Jumper
Z1
buzzer
Buzz ON
SOURCE
4 x Battery AA = 6V
X1
FUSE
F1
D1
SW2A
SW_DPDT_x2
NOTA: Revisar
diodo
de proteccion
U3
AP2114_3.3v
VIN
VOUT
ADJ/GND
D2
D3
D_Schottky
C4
10uF
C5
10uH
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Thanks escornabot.com, Pablo Rubio, XDeSIG and abierto.cc
electroniccats.com
Andres Sabas
Electronic Cats
Sheet: /
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Title: Escornabot Makech
Size: A4
Date: 2019-04-28
Rev: v0.3
KiCad E.D.A. kicad (5.0.1-3-g963ef8bb5)
Id: 1/1