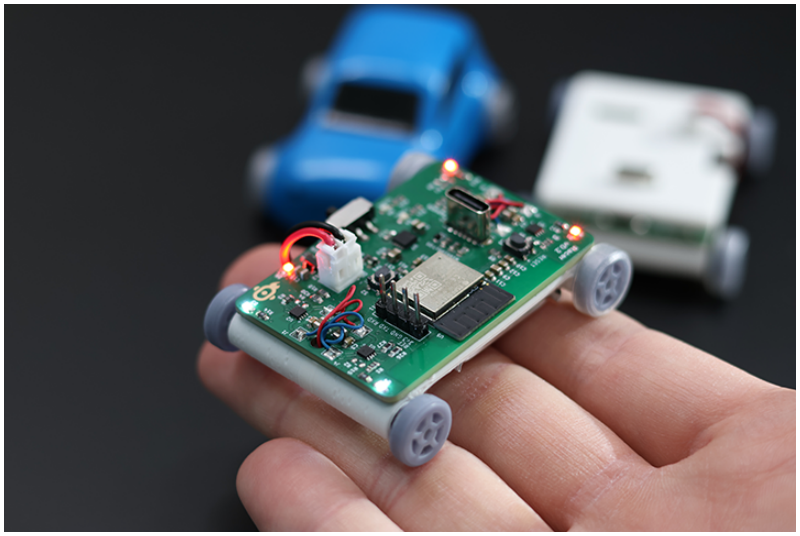

Micro Racer Car - StuckAtPrototype

Page 1	Microcontroller
Page 2	Power
Page 3	Motor

StuckAtPrototype

Sheet: /
File: racer.kicad_sch

Title: Racer

Size: A4	Date: 2024-10-14	**Rev: v0.2**
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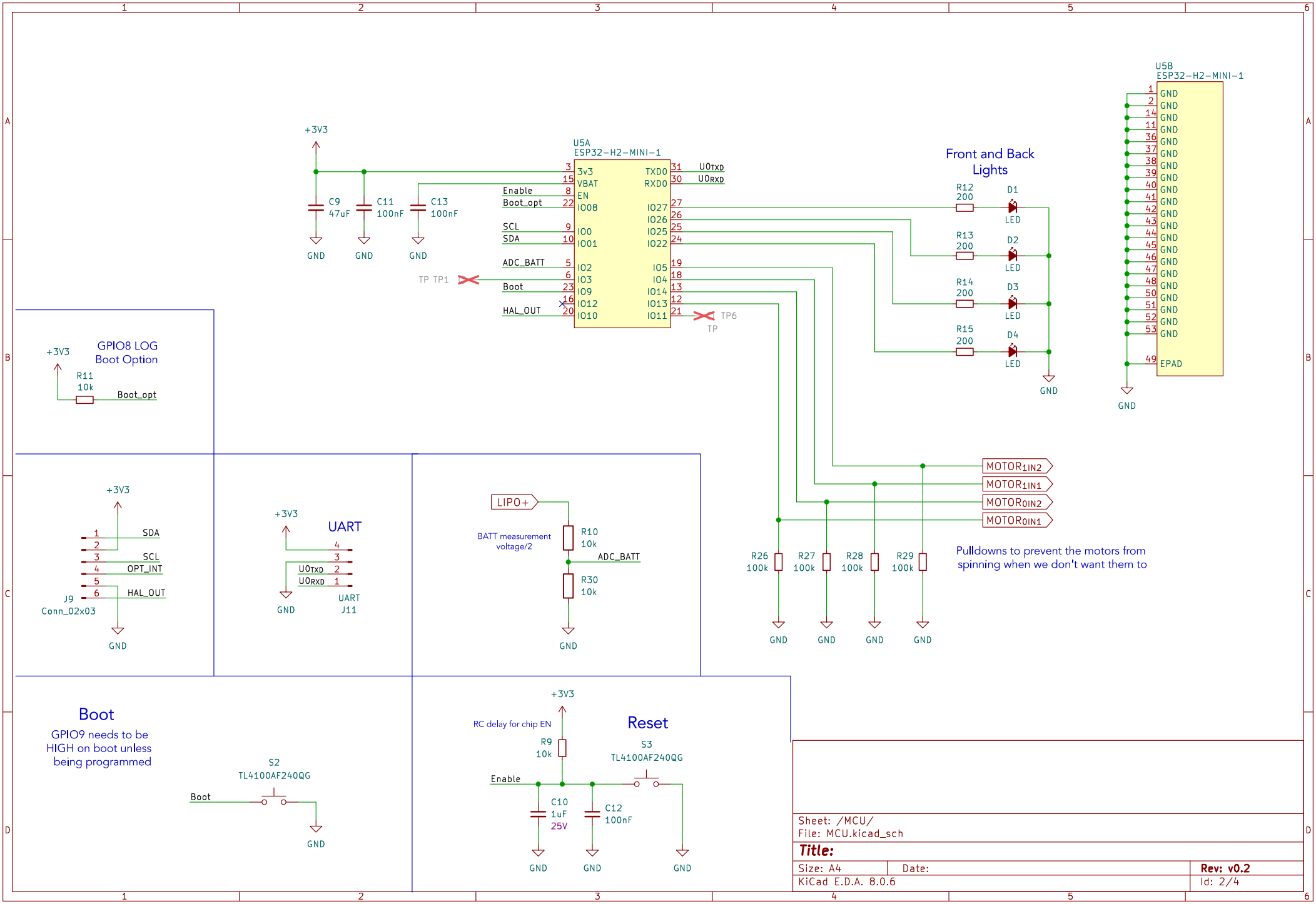
U5A
ESP32-H2-MINI-1
U5B
ESP32-H2-MINI-1
+3V3
C9
47uF
C11
100nF
C13
100nF
GND
Enable
Boot_opt
SCL
SDA
ADC_BATT
Boot
HAL_OUT
TP TP1
TP6
TP
U0TXD
U0RXD
Front and Back Lights
R12
200
R13
200
R14
200
R15
200
D1
D2
D3
D4
LED
MOTOR1IN2
MOTOR1IN1
MOTOR0IN2
MOTOR0IN1
R26
100k
R27
100k
R28
100k
R29
100k
Pulldowns to prevent the motors from spinning when we don't want them to
GPIO8 LOG
Boot Option
R11
10k
J9
Conn_02x03
SDA
SCL
OPT_INT
HAL_OUT
UART
J11
LIPO+
BATT measurement voltage/2
R10
10k
R30
10k
ADC_BATT
Boot
GPIO9 needs to be HIGH on boot unless being programmed
S2
TL4100AF240QG
Reset
RC delay for chip EN
R9
10k
S3
TL4100AF240QG
C10
1uF
25V
C12
100nF
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Title:
Size: A4
Date:
Rev: v0.2
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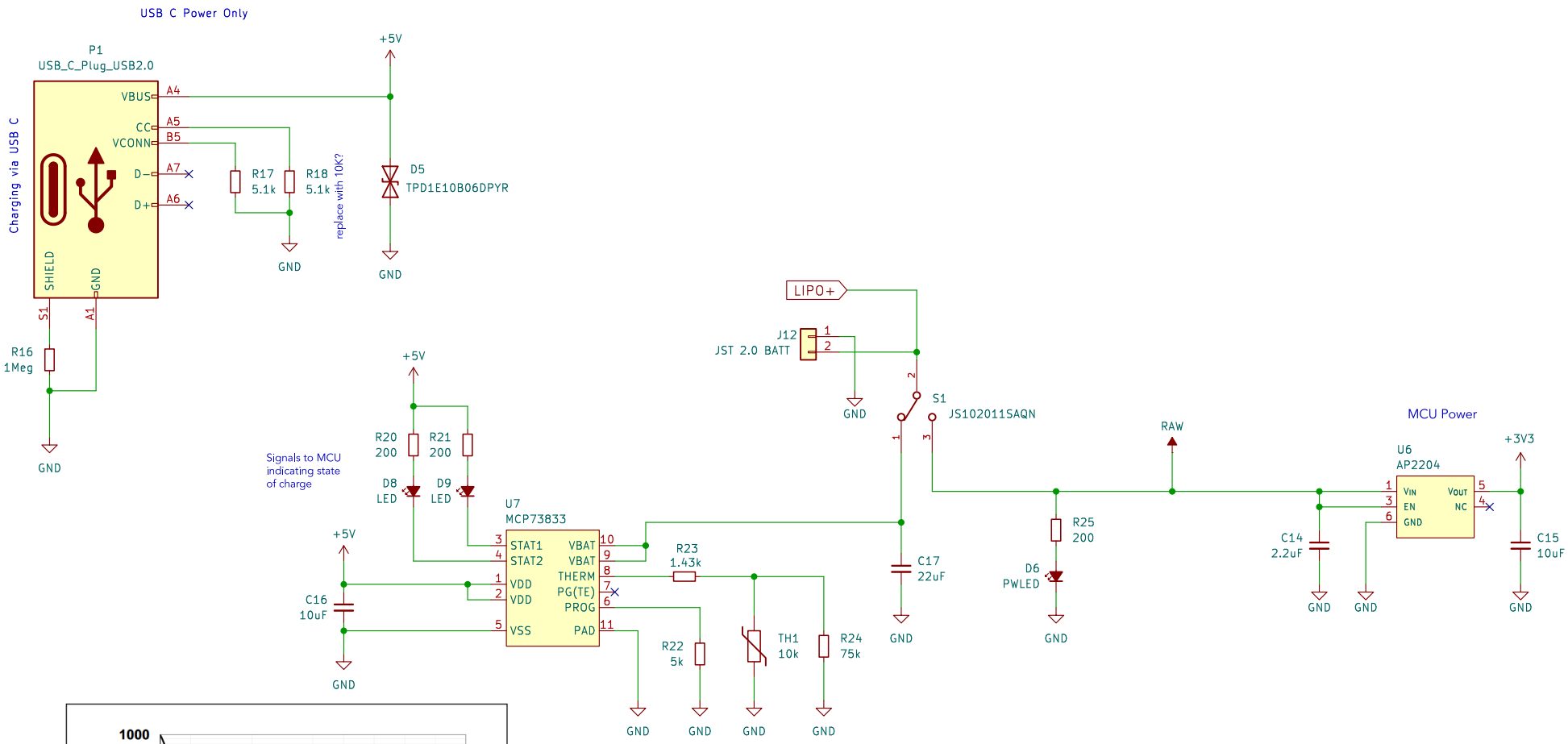
Id: 2/4



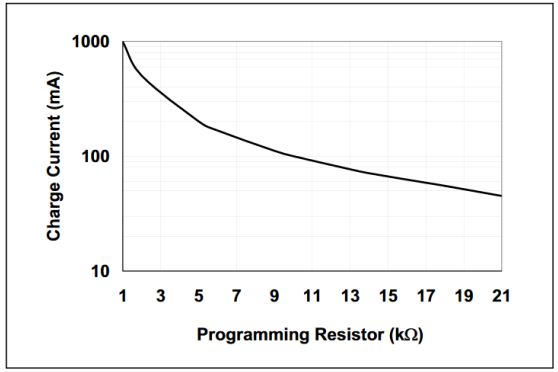


FIGURE 2-4: *Charge Current (I_{OUT}) vs. Programming Resistor (R_{PROG}).*

Sheet: /MOTOR/		
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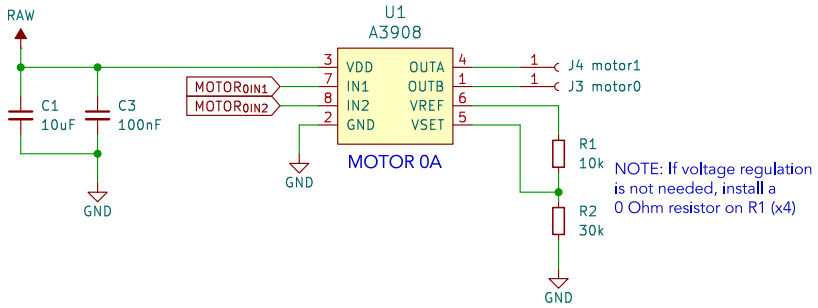
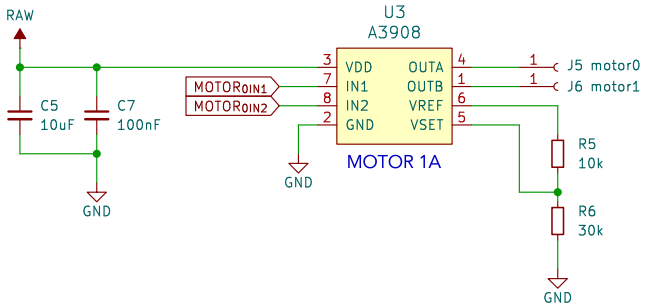
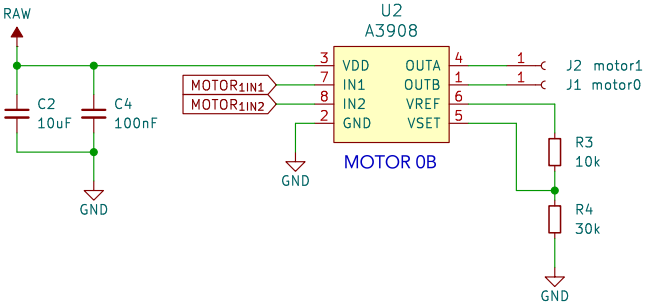
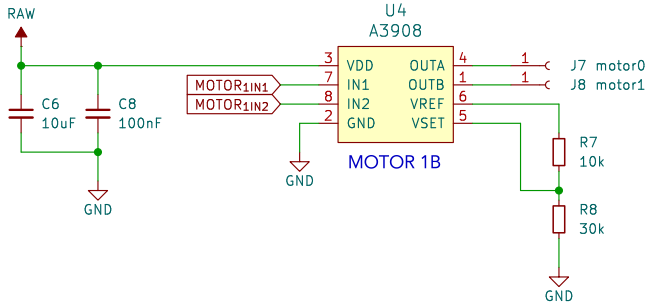
Size: A4	Date:	**Rev: v0.2**
KiCad E.D.A. 8.0.6		Id: 3/4









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File: PWR.kicad_sch		
Title:		
Size: A4	Date:	**Rev: v0.2**
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