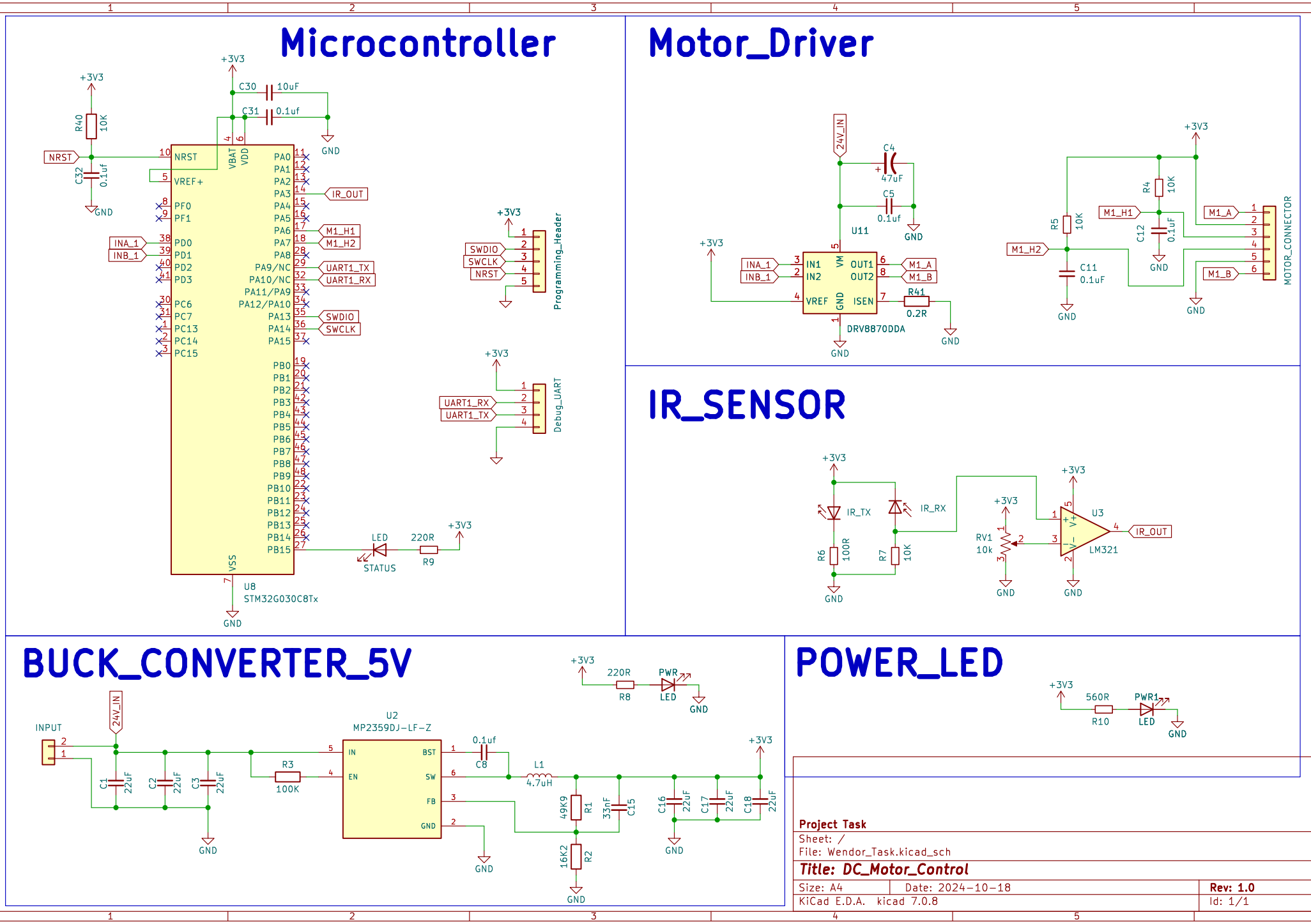
Microcontroller
Motor_Driver
IR_SENSOR
BUCK_CONVERTER_5V
POWER_LED
+3V3
R40
10K
NRST
C32
0.1uf
GND
C30
10uF
C31
0.1uf
VBAT
VDD
VREF+
VSS
PF0
PF1
PD0
PD1
PD2
PD3
PC6
PC7
PC13
PC14
PC15
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9/NC
PA10/NC
PA11/PA9
PA12/PA10
PA13
PA14
PA15
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
IR_OUT
M1_H1
M1_H2
UART1_TX
UART1_RX
SWDIO
SWCLK
INA_1
INB_1
U8
STM32G030C8Tx
LED
220R
R9
STATUS
Programming_Header
Debug_UART
24V_IN
C4
47uF
C5
0.1uf
U11
IN1
IN2
VM
OUT1
OUT2
VREF
GND
ISEN
R41
0.2R
DRV8870DDA
M1_A
M1_B
R5
10K
C11
0.1uf
R4
10K
C12
0.1uf
MOTOR_CONNECTOR
IR_TX
IR_RX
R6
100R
R7
10K
RV1
10k
U3
LM321
INPUT
C1
22uF
C2
22uF
C3
22uF
R3
100K
U2
MP2359DJ-LF-Z
IN
EN
BST
SW
FB
GND
C8
0.1uf
L1
4.7uH
49K9
R1
16K2
R2
33nF
C15
C16
22uF
C17
22uF
C18
22uF
R8
220R
PWR
LED
R10
560R
PWR1
Project Task
Sheet: /
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Title: DC_Motor_Control
Size: A4
Date: 2024-10-18
Rev: 1.0
KiCad E.D.A. kicad 7.0.8
Id: 1/1