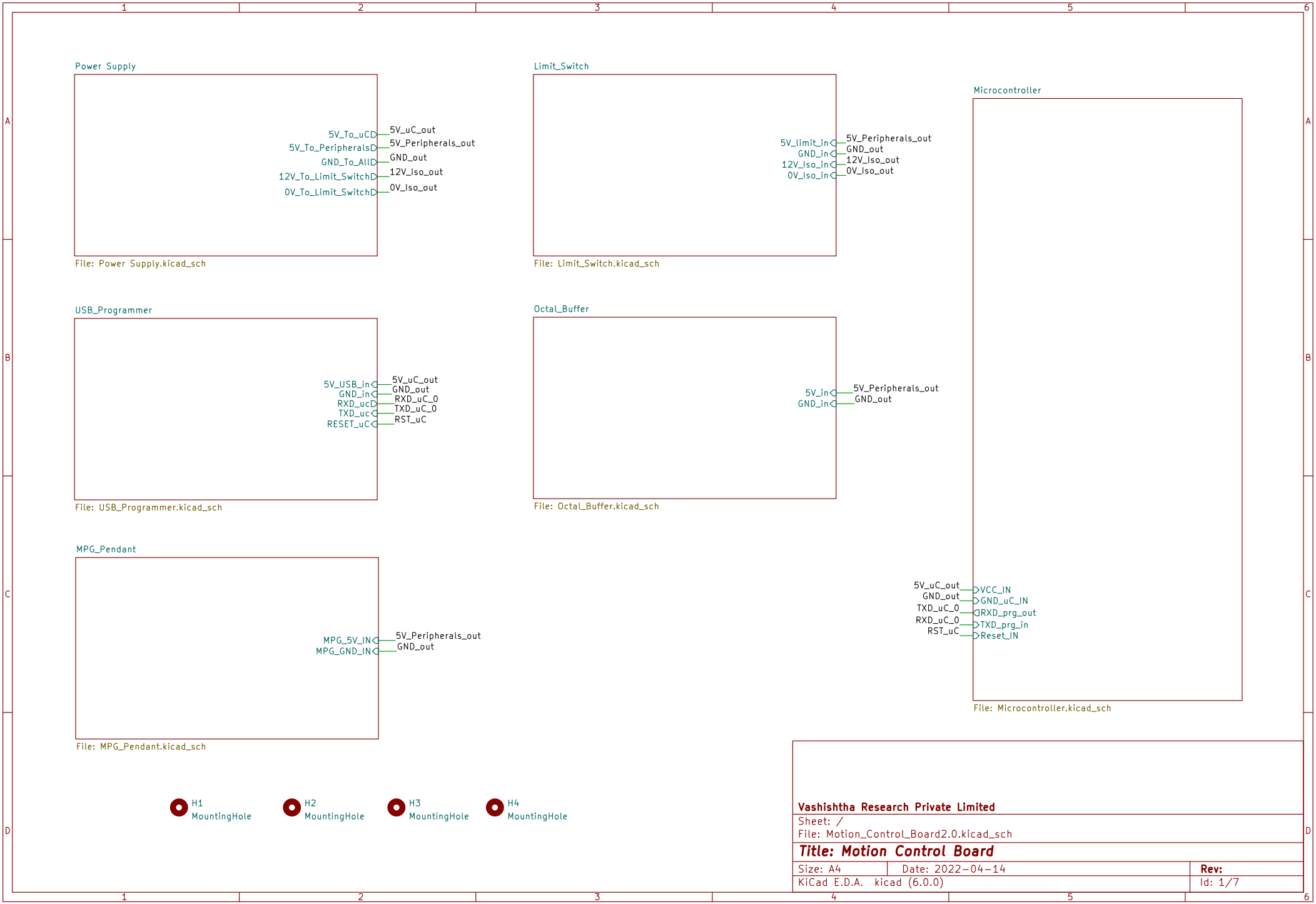
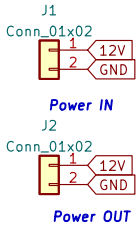
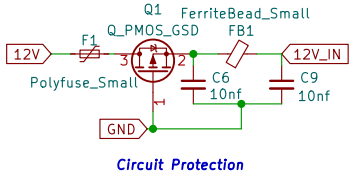
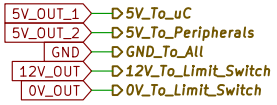
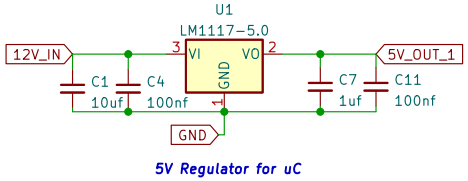
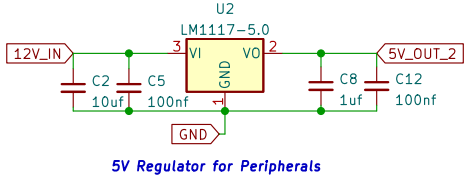

Power Supply
5V_To_uC
5V_To_Peripherals
GND_To_All
12V_To_Limit_Switch
0V_To_Limit_Switch
5V_uC_out
5V_Peripherals_out
GND_out
12V_Iso_out
0V_Iso_out
File: Power Supply.kicad_sch
Limit_Switch
5V_limit_in
GND_in
12V_Iso_in
0V_Iso_in
5V_Peripherals_out
GND_out
12V_Iso_out
0V_Iso_out
File: Limit_Switch.kicad_sch
Microcontroller
5V_uC_out
GND_out
TXD_uC_0
RXD_uC_0
RST_uC
VCC_IN
GND_uC_IN
RXD_prg_out
TXD_prg_in
Reset_IN
File: Microcontroller.kicad_sch
USB_Programmer
5V_USB_in
GND_in
RXD_uc
TXD_uc
RESET_uC
5V_uC_out
GND_out
RXD_uC_0
TXD_uC_0
RST_uC
File: USB_Programmer.kicad_sch
Octal_Buffer
5V_in
GND_in
5V_Peripherals_out
GND_out
File: Octal_Buffer.kicad_sch
MPG_Pendant
MPG_5V_IN
MPG_GND_IN
5V_Peripherals_out
GND_out
File: MPG_Pendant.kicad_sch
H1
MountingHole
H2
MountingHole
H3
MountingHole
H4
MountingHole
Vashishtha Research Private Limited
Sheet: /
File: Motion_Control_Board2.0.kicad_sch
Title: Motion Control Board
Size: A4
Date: 2022-04-14
Rev:
KiCad E.D.A. kicad (6.0.0)
Id: 1/7

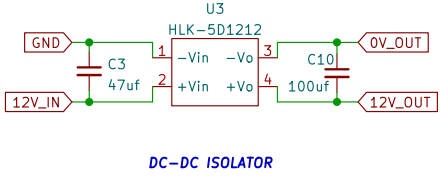








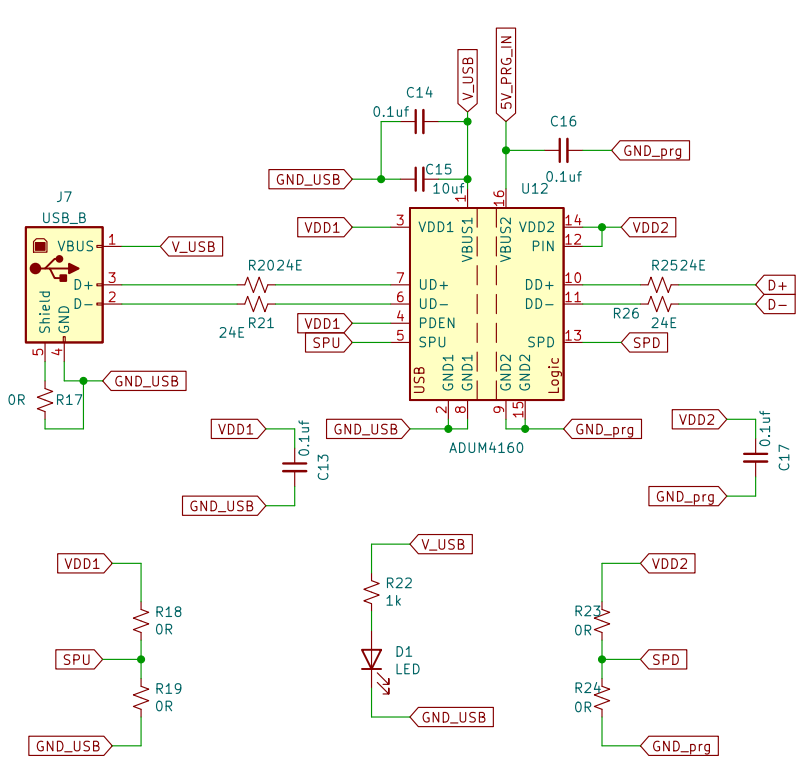


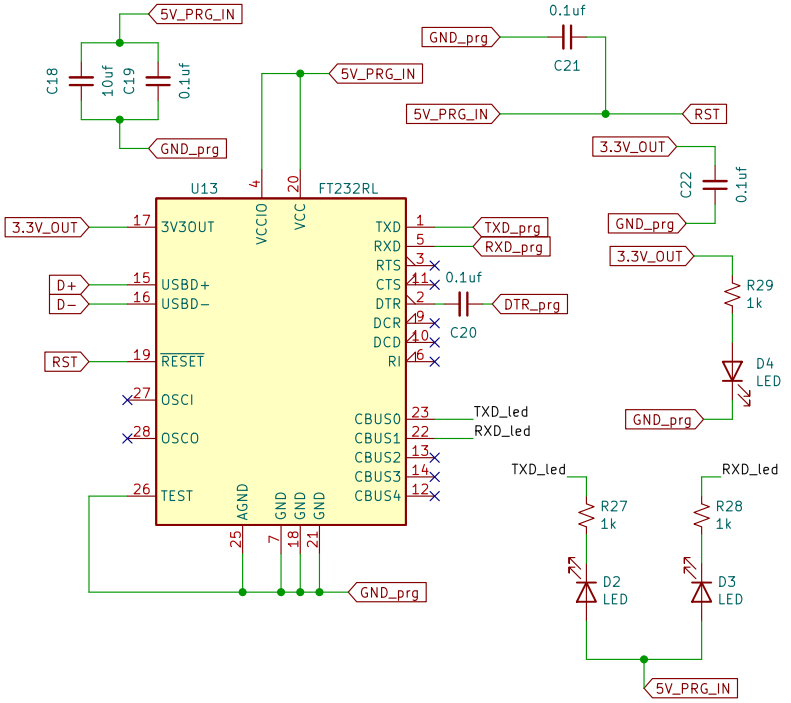


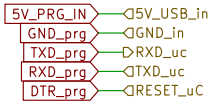
Power Supply

Vashishtha Research Private Limited	
Sheet: /Power Supply/	
File: Power Supply.kicad_sch	
Title: Motion Control Board	
Size: A4	Date: 2022-04-14
KiCad E.D.A. kicad (6.0.0)	Rev: Id: 2/7

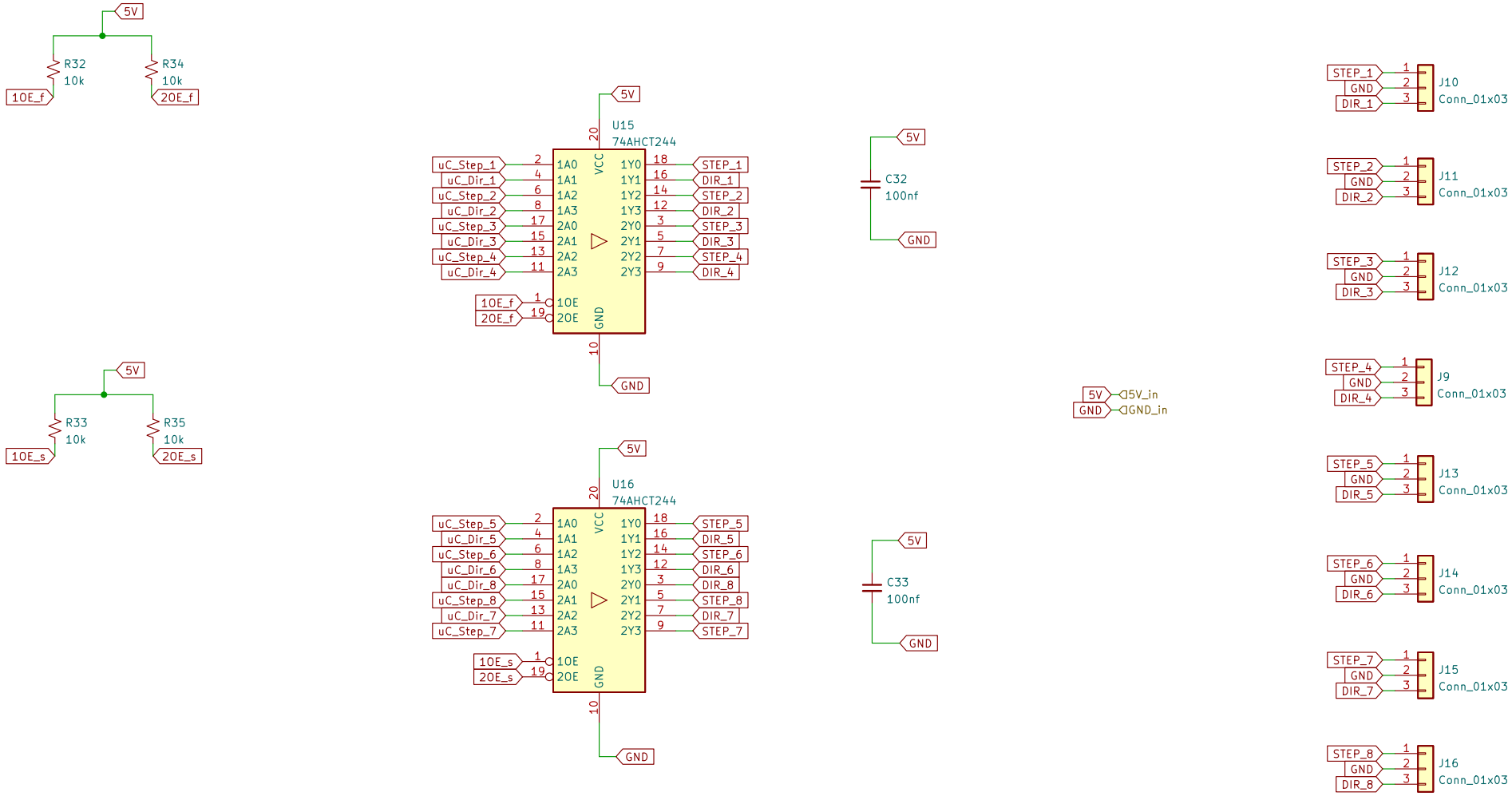
Full Speed : Set SPU/SPD High
Low Speed : Set SPU/SPD Low







Vashishtha Research Private Limited		
Sheet: /USB_Programmer/		
File: USB_Programmer.kicad_sch		
Title: Motion Control Board		
Size: A4	Date: 2022-04-14	**Rev:**
KiCad E.D.A. kicad (6.0.0)		Id: 3/7

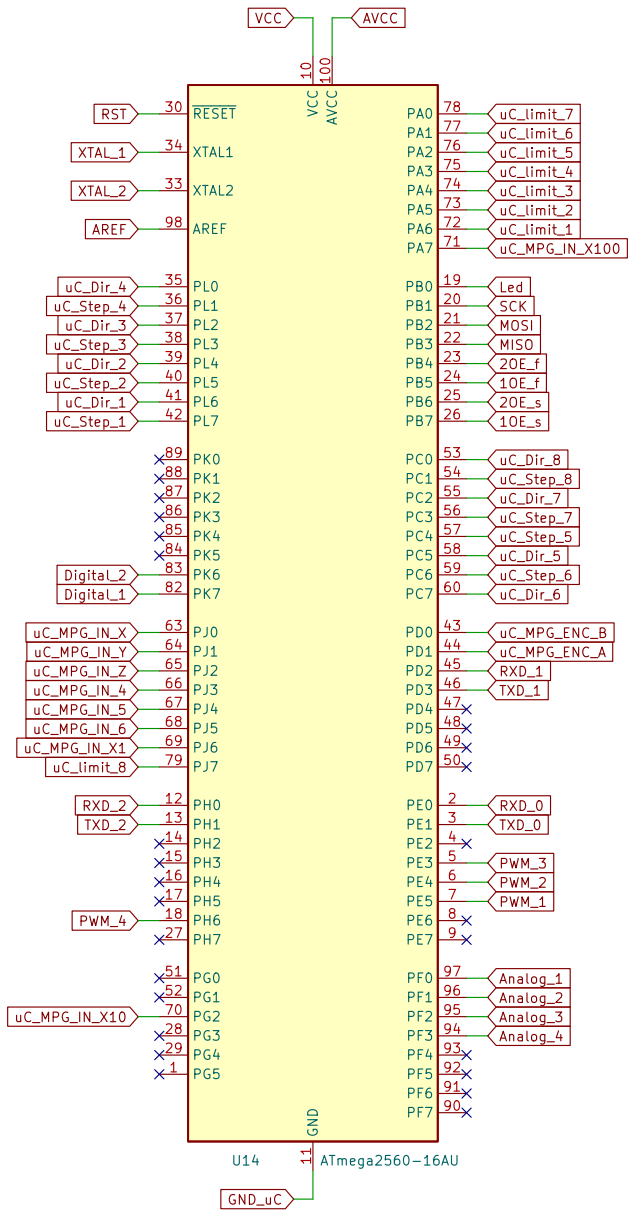


Vashishtha Research Private Limited

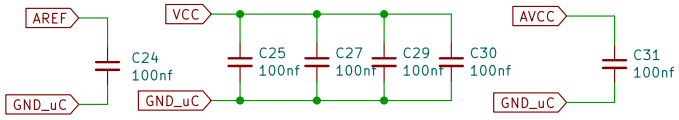
Sheet: /Octal_Buffer/
File: Octal_Buffer.kicad_sch

Title: Motion Control Board

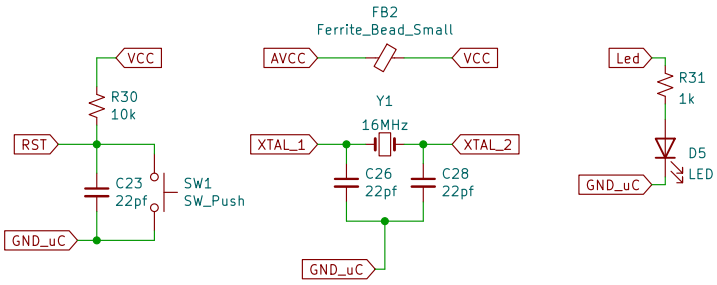
Size: A4	Date: 2022-04-14	**Rev:**
KiCad E.D.A. kicad (6.0.0)		Id: 4/7

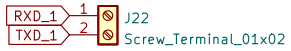


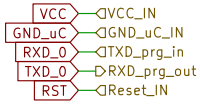
Microcontroller

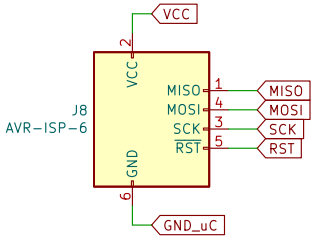


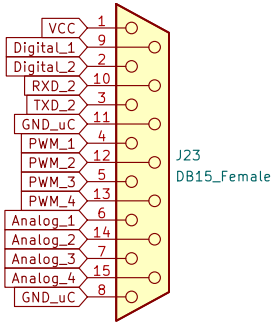
Decoupling_Capacitors











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Sheet: /Microcontroller/
File: Microcontroller.kicad_sch

Title: Motion Control Board

Size: A4	Date: 2022-04-14	**Rev:**
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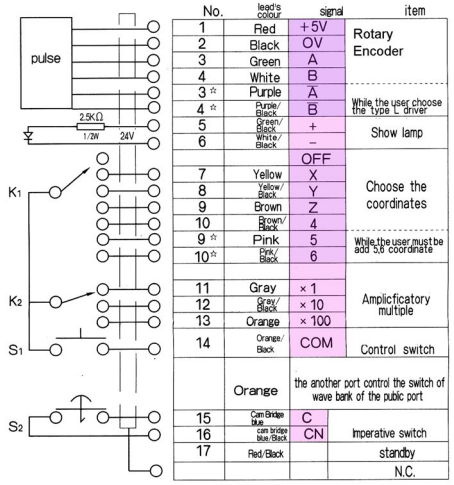
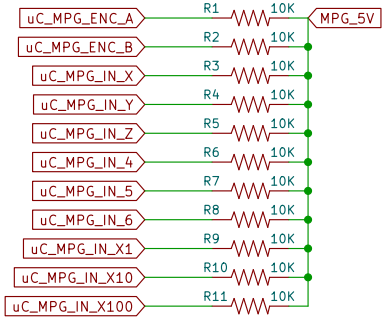
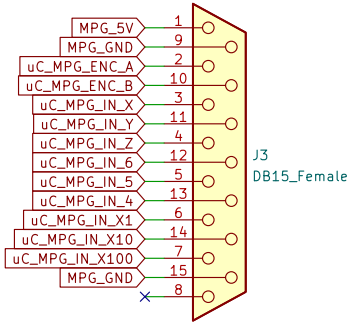
Color	Red	Black	Green	White	Purple	Purple/Black	Black/Green	Black/White	Yellow
Signal	5V	0V	A	B	A/	B/	LED+	LED-	X
Color	Black/Yellow	Brown	Black/Brown	Pink	Pink/Black	Grey	Black/Grey	Orange	Black/Orange
Signal	Y	Z	4	5	6	X1	X10	X100	COM



No.	lead's colour	signal	item
1	Red	+5V	Rotary Encoder
2	Black	0V	
3	Green	A	
4	White	B	
3 ☆	Purple	A	While the user choose the type 'L' driver
4 ☆	Purple/Black	B	
5	Green/Black	+	Show lamp
6	White/Black	–	
		OFF	Choose the coordinates
7	Yellow	X	
8	Yellow/Black	Y	
9	Brown	Z	
10	Brown/Black	4	
9 ☆	Pink	5	While the user must be add 5,6 coordinate
10 ☆	Pink/Black	6	
11	Gray	× 1	Amplicficatory multiple
12	Gray/Black	× 10	
13	Orange	× 100	
14	Orange/Black	COM	Control switch
	Orange		the another port control the switch of wave bank of the public port
15	Cam Bridge blue	C	Imperative switch
16	cam bridge blue/Black	CN	
17	Red/Black		standby
			N.C.

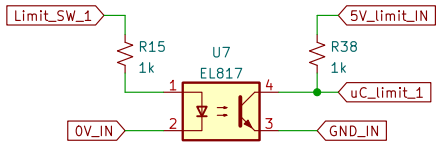


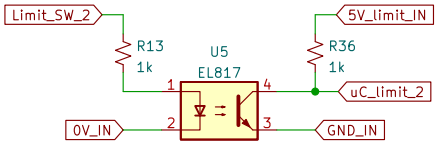


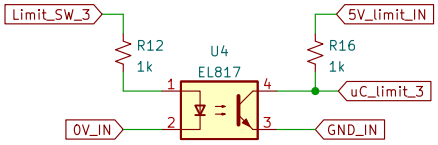
Sheet: /MPG_Pendant/
File: MPG_Pendant.kicad_sch

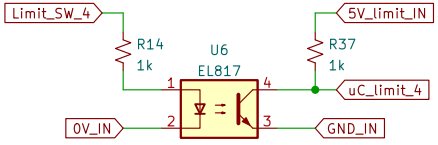
Title:

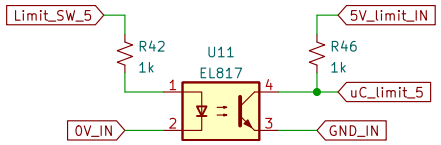
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (6.0.0)		Id: 6/7

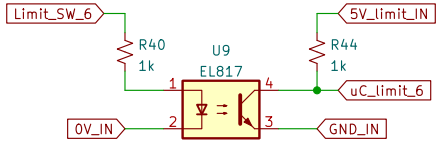


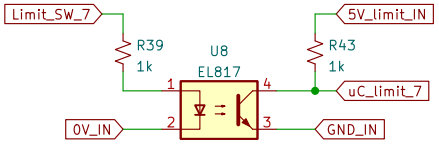


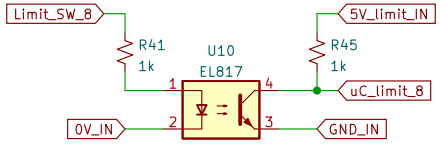


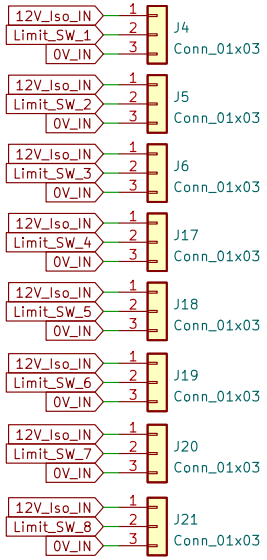


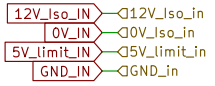












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Sheet: /Limit_Switch/
File: Limit_Switch.kicad_sch

Title: Motion Control Board

Size: A4	Date: 2022-04-14	**Rev:**
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