	Project Name		ControllerPCB.PrjPcb	
	Draw By		Can Güveren	
	Date		01/12/2021	
	Size	A3	Number	1

A

B

C

D

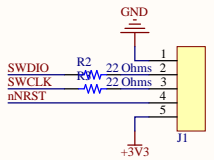
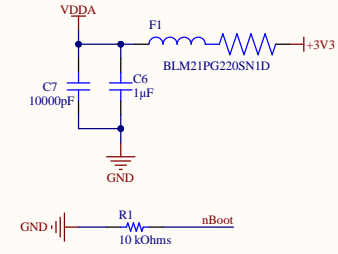
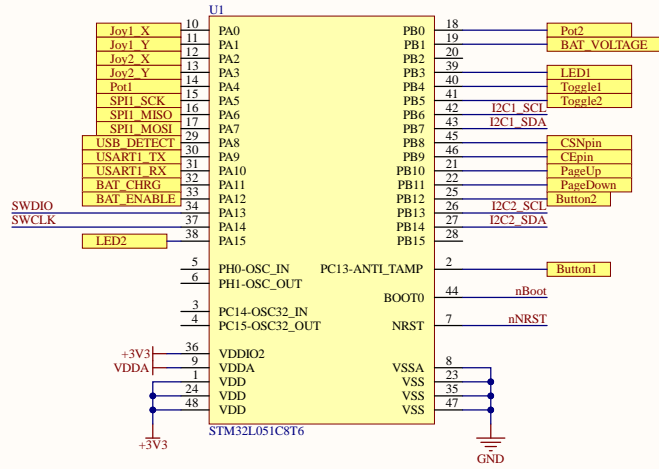
A

B

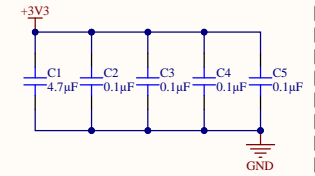
C

D

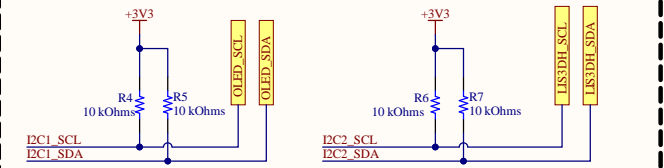
MCU



Decoupling Capacitors

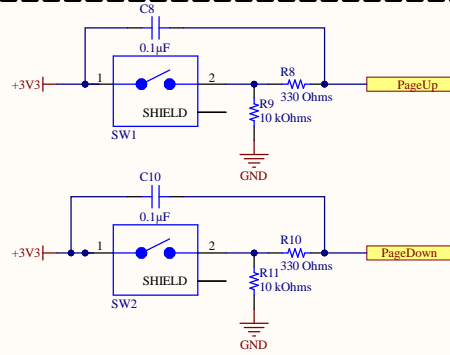


I2C Bus

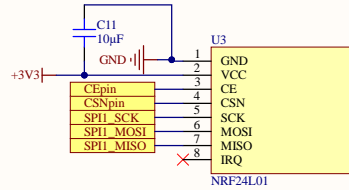


	Project Name		ControllerPCB.PrjPcb	
	Draw By		Can Güverer	
	Date		01/12/2021	
	Size	A3	Number	2

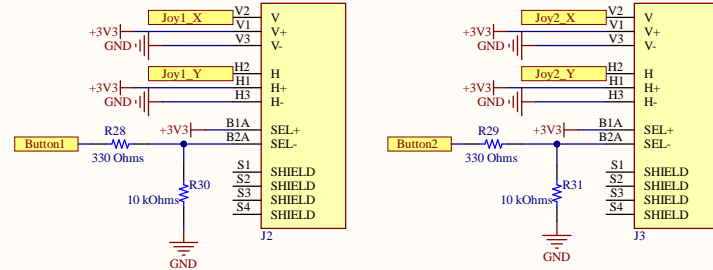
Screen Button



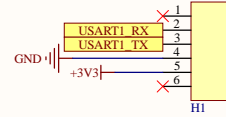
NRF24L01



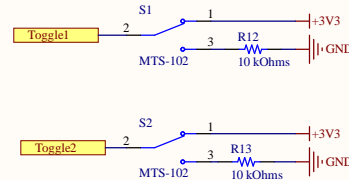
Joystick



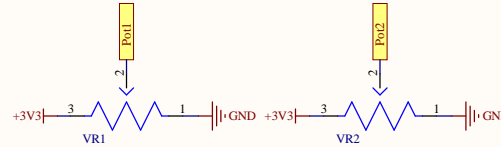
HC05 Connector



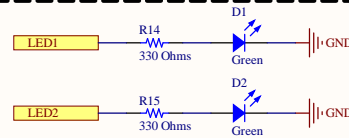
Toggle



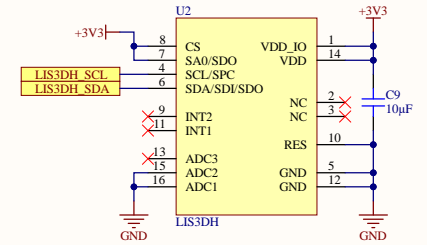
Pot



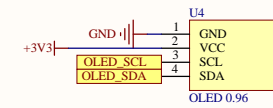
LED



LIS3DH

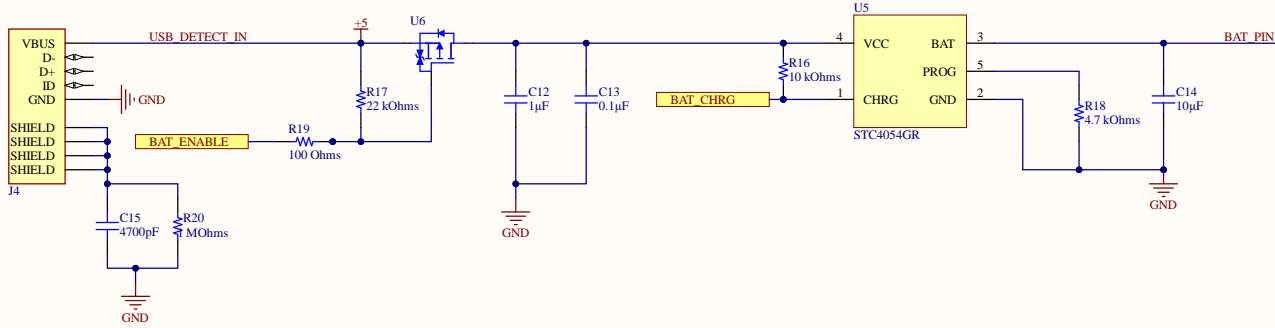


OLED

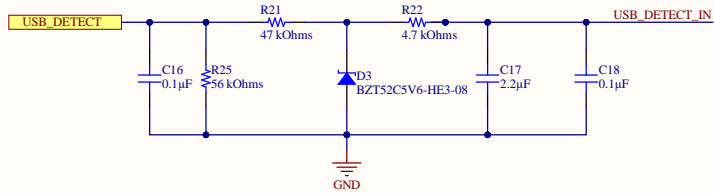


	Project Name		ControllerPCB.PrjPcb	
	Draw By		Can Güverer	
	Date		01/12/2021	
	Size	A3	Number	3

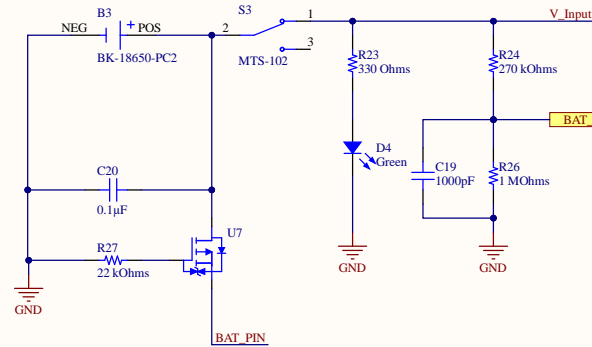
Battery Charge Circuit



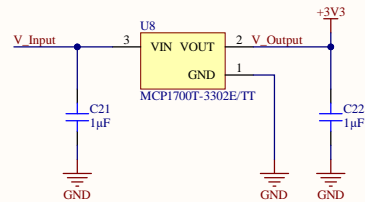
Battery Detect Circuit



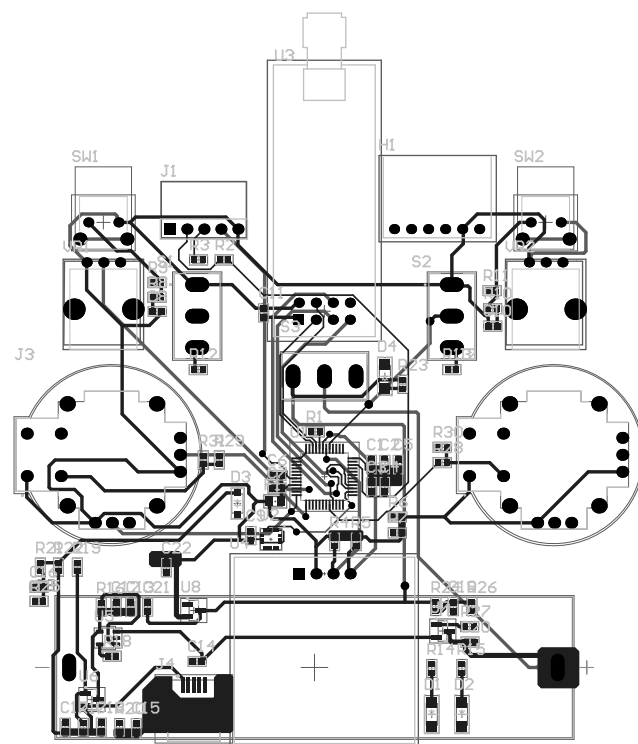
Battery Voltage Measure

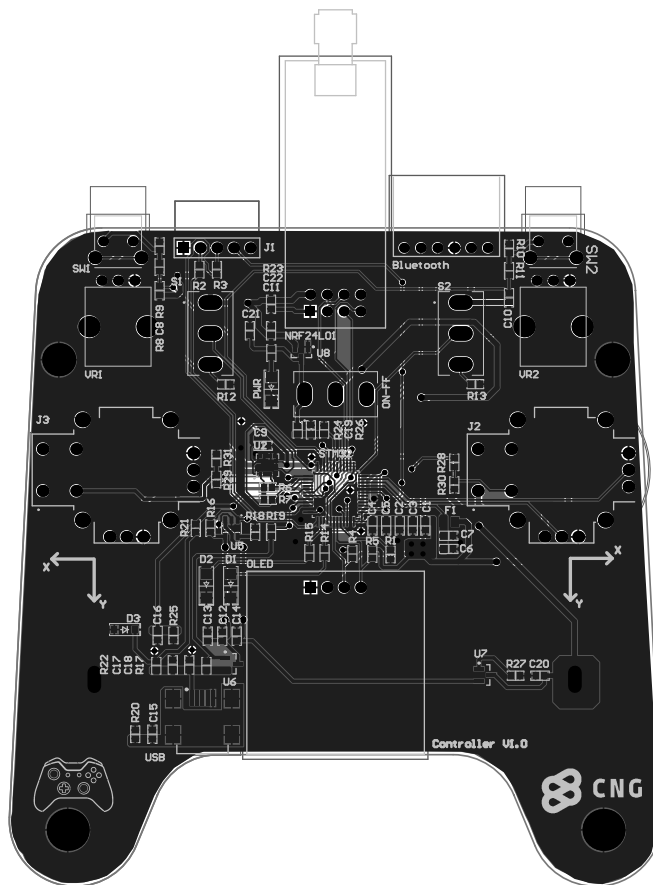


Voltage Regulator



	Project Name		ControllerPCB.PrjPcb	
	Draw By		Can Güveren	
	Date		01/12/2021	
	Size	A3	Number	4





Comment	Description	Designator	Footprint	LibRef	Quantity
BK-18650-PC2	Battery Holder 18650 Pc Pin	B3	BK-18650-PC2	BK-18650-PC2	1
4.7µF	CAP CER 4.7UF 10V X5R 0603	C1	CAP 0603_1608	LMK107BJ475KA-T	1
0.1µF	CAP CER 0.10UF 16V X7R 0603, CAP CER 0.1UF 50V X7R 0603	C2, C3, C4, C5, C8, C10, C13, C16, C18, C20	CAP 0603_1608	0603Y0160104KXT, C0603C104K5RAC741 1	10
1µF	CAP CER 0603 1UF 16V X7R 10%	C6, C12, C21, C22	CAP 0603_1608	C0603C105K4RACAUT O	4
10000pF	CAP CER 0603 10NF 16V X7R 10%	C7	CAP 0603_1608	C0603C103K4RECAUT O	1
10µF	CAP CER 10UF 6.3V X5R 0603	C9, C11, C14	CAP 0603_1608	GRM188R60J106ME4 7D	3
4700pF	CAP CER 0603 4.7NF 16V X7R 10%	C15	CAP 0603_1608	C0603C472K4RECAUT O	1
2.2µF	CAP CER 2.2UF 16V Y5V 0603	C17	CAP 0603_1608	CC0603ZRY5V78B225	1
1000pF	CAP CER 0603 1NF 16V X7R 10%	C19	CAP 0603_1608	C0603C102K4RECAUT O	1
Green	LED YELLOW 1206 SMD	D1, D2, D4	LED 1206_3216 YELLOW	S990240007F	3
BZT52C5V6-HE3-08	DIODE ZENER 5.6V 410MW SOD123	D3	SOD-123	BZT52C5V6-HE3-08	1
BLM21PG220SN1D	Ferrite Beads Multi- Layer 220hm 25% 100Mhz 6A 9mOhm DCR 0805 Paper 1/R	F1	BLM21PG220SN1D	BLM21PG220SN1D	1
1x6 Pin Header - Female		H1	1x6 Pin Header - Female	1x6 Pin Header - Female	1
Header-90 Degree- 5x1		J1	Header-90 Degree-5P	Header-90 Degree-5x1	1
COM-09032	Joystick 10K Ohm 2 Axis Th	J2, J3	COM-09032	COM-09032	2
USB2066-05-RBHM- 15-STB-00-00-A	Conn Mini USB Type B RCP 5 POS 0.8mm Solder RA SMD 5 Terminal 1 Port T/R	J4	USB Mini-8	USB2066-05-RBHM- 15-STB-00-00-A	1
10 kOhms	RES 10K OHM 0.1% 1/16W 0603, RES SMD 10K OHM 0.1% 1/16W 0603	R1, R4, R5, R6, R7, R9, R11, R12, R13, R16, R30, R31	RES 0603_1608	RNCS0603BKE10K0, CPF0603B10KE	12
22 Ohms	RES SMD 22 OHM 1% 1/10W 0603	R2, R3	RES 0603_1608	ERJ-3EKF22R0V	2
330 Ohms	RES SMD 330 OHM 1% 1/10W 0603	R8, R10, R14, R15, R23, R28, R29	RES 0603_1608	AC0603FR-07330RL	7
22 kOhms	RES SMD 22K OHM 5% 1/10W 0603	R17, R27	RES 0603_1608	AC0603JR-0722KL	2
4.7 kOhms	RES SMD 4.7K OHM 0.1% 1/10W 0603	R18, R22	RES 0603_1608	ERA-3AEB472V	2
100 Ohms	RES 100 OHM 0.1% 1/16W 0603	R19	RES 0603_1608	RNCS0603BKE100R	1
1 MOhms	RES 1M OHM 1% 1/10W 0603	R20, R26	RES 0603_1608	RMCFO603FT1M00	2
47 kOhms	RES SMD 47K OHM 5% 1/4W 0603	R21	RES 0603_1608	RCS060347K0JNEA	1
270 kOhms	CRGP 0603 270K 1%	R24	RES 0603_1608	CRGP0603F270K	1
56 kOhms	RES SMD 56K OHM 1% 1/10W 0603	R25	RES 0603_1608	AC0603FR-0756KL	1
MTS-102		S1, S2, S3	MTS-102 (Toggle)	MTS-102	3
Switch Tactile, Right Angle		SW1, SW2	Tactile Switch	Switch Tactile, Right Angle	2
STM32L051C8T6	MCU 32-Bit Ultra Low Power STM32L ARM Cortex M0+ RISC 64kB Flash 48-Pin LQFP Tray	U1	LQFP-48	STM32L051C8T6	1
LIS3DH	MEMS digital output motion sensor ultra low-power high performance 3-axes "nano" accelerometer	U2	VFLGA-16	LIS3DH	1
NRF24L01		U3	NRF24L01+ PCB	NRF24L01+ PCB	1
OLED 0.96		U4	OLED 0.96	OLED 0.96	1
STC4054GR	STC4054 Series 6.5 V 800 mA Standalone Linear Li-Ion Battery Charger - TSOT-23-5	U5	TSOT-23	STC4054GR	1
SSM3J338R.LF	Small-Signal Mosfet Pch Sol23F, Vdss=- 12V, Id=-6A, Rdson: 200hm Rohs Compliant: Yes	U6, U7	SOT-23-3	SSM3J338R.LF	2
MCP1700T-3302E/TT	Pwr Sply Func, Voltage Regulator, LDO, SOT- 23, PD 369.6mW, VO 3.3V, Regline +/- 0.75%/V	U8	SOT-23-3	MCP1700T-3302E/TT	1
PTV09A-4225F-B104	Res Carbon Film POT 100K Ohm 20% 1/20W 1(Elec)/1(Mech)Turn 6mm (11.4 X 12.65 X 28.8mm) Pin Bracket Mount/Through Hole	VR1, VR2	PTV09A-4225F-B104	PTV09A-4225F-B104	2