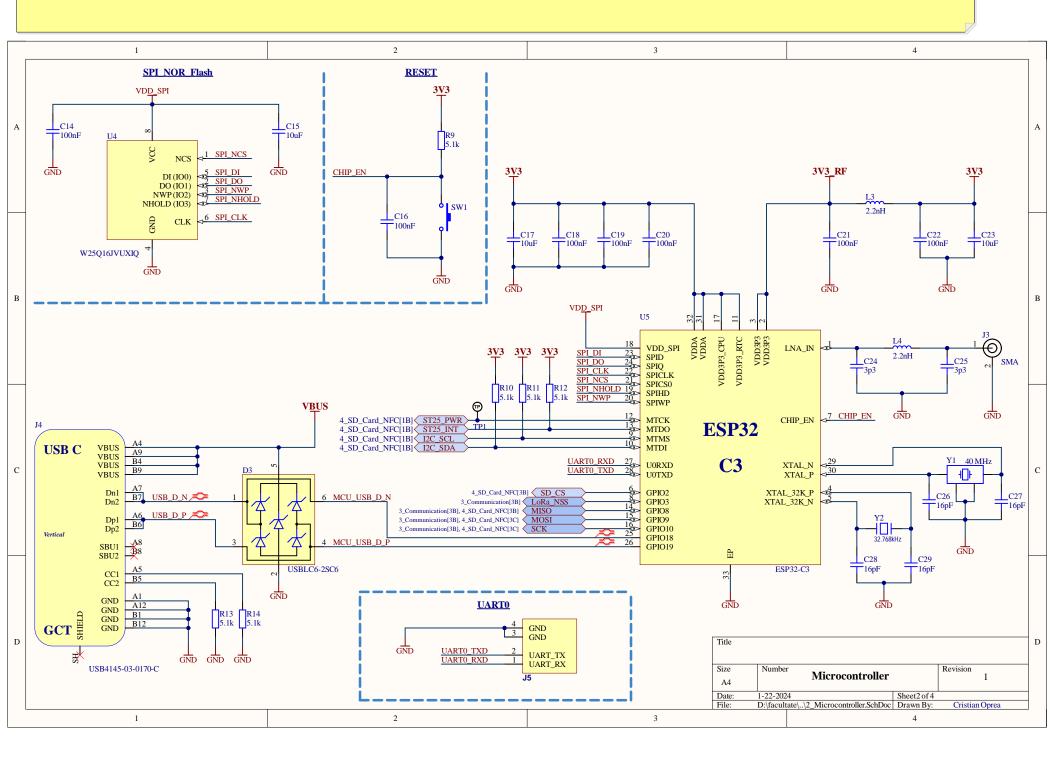
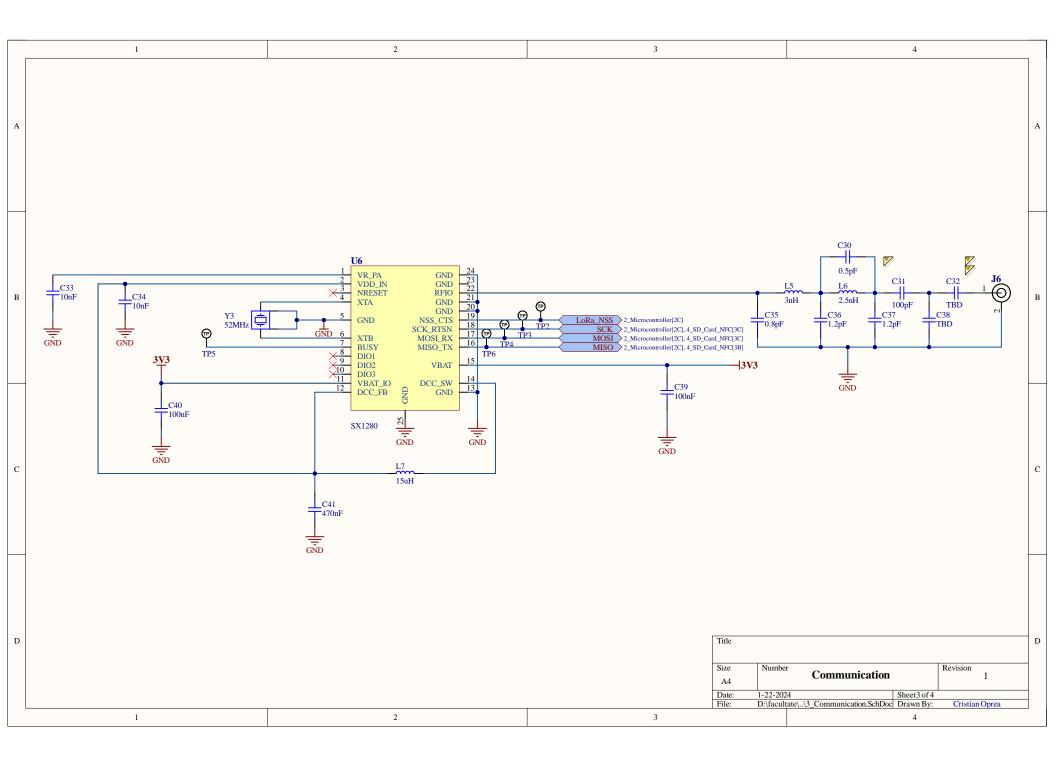
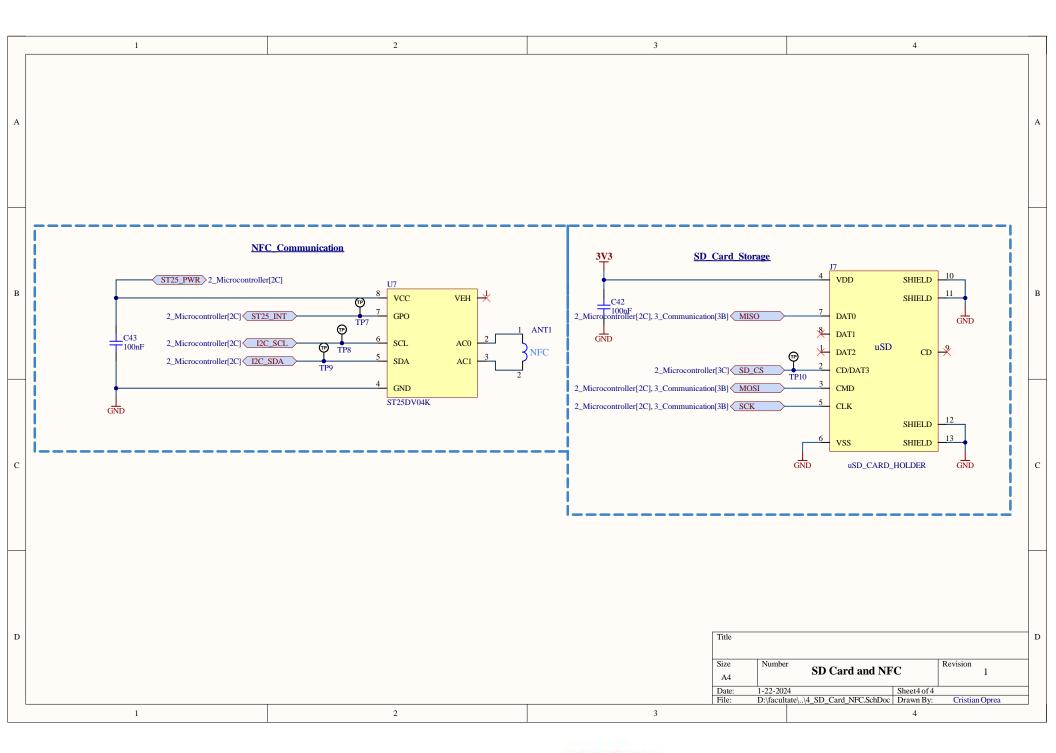
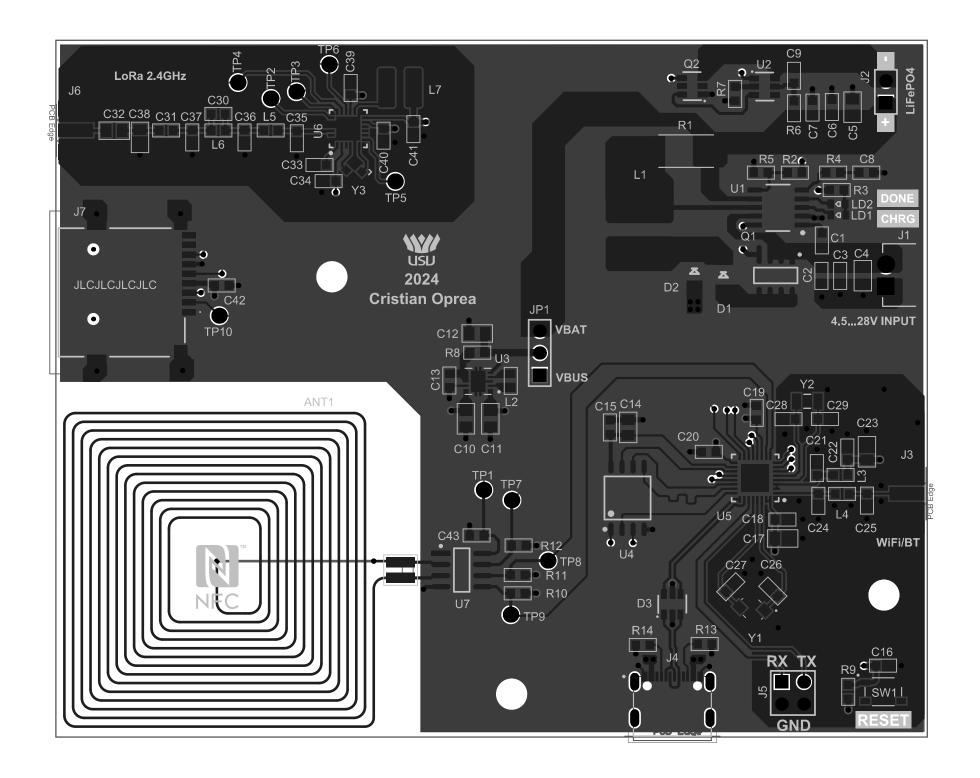


Antenna connected on SMA connector









Commont	Description	Declarator	Contorint	LibDof	Quantitu
NFC ANTENNA	Description	Designator ANT1	Footprint ANT16	LibRef NFC_ANTENNA	Quantity
INI C_AINTEININA		C1, C2, C7, C9, C13,	ANTIO	NIC_ANTENNA	<u>'</u>
		C14, C16, C18, C19,			
100nF	Capacitor SMD 0603	C20, C21, C22, C39,	C0603	CAP_0603	16
		C40, C42, C43			
4.7uF	Capacitor SMD 0603	C3, C6	C0603	CAP_0603	2
10uF	Capacitor SMD 0805	C4, C5, C10, C11, C12,	C0805	CAP_0805	8
		C15, C17, C23		_	٥
220nF	Capacitor SMD 0603	C8	C0603	CAP_0603	1
3p3	Capacitor SMD 0603	C24, C25	C0603	CAP_0603	2
16pF	Capacitor SMD 0603	C26, C27, C28, C29	C0603	CAP_0603	4
0.5pF	Capacitor SMD 0603	C30	C0603	CAP_0603	1
100pF	Capacitor SMD 0603	C31	C0603	CAP_0603	1
TBD	Capacitor SMD 0805	C32, C38	C0805	CAP_0603	2
10nF	Capacitor SMD 0603	C33, C34	C0603	CAP_0603	2
0.8pF	Capacitor SMD 0805	C35	C0603	CAP_0805	1
1.2pF	Capacitor SMD 0603 Capacitor SMD 0603	C36, C37	C0603	CAP_0603	2
470nF SS34	Diode	C41 D1, D2	C0603 DO-214AC	DIODE_SCHOTTKY	1
	Low-Capacitance ESD		DU-214AC	DIODE_3CHOTTKT	
USBLC6-2SC6	Protection USB	D3	SOT23-6	USBLC6-2SC6	1
	PIOLECTION OSB				
PLUGIN_TERMINAL	Screw terminal or plug	J1	2.54_pluggable_termi	Power_Connector	1
T EOON TERRITARE	terminal for power	,	nal	TOWCI_CONNECTOR	i i
PLUGIN_TERMINAL	Screw terminal or plug	J2	HEADER_1x2_2.54	Power_Connector	1
	terminal for power	<u> </u>			'
	RF Connector SMA				
SMA	Female 50 Ohms 18	J3	CON_SMA-EDGE-S	CON-SMA-EDGE-S	1
	GHz PCB Edge Mount]
LICD 41 4E 02 04 70 2	USB Connector Type C	J4	VALCON_CSP-USC16-	USB4145-03-0170-C	
USB4145-03-0170-C	SMT 16 Pin Vertical	J4	TR	USB4145-03-0170-C	1
Header1x4		J5	HEADER_2x2_2.54	Header1x4	1
	RF Connector SMA				
SMA_EDGE_CONN	Female 50 Ohms 18	J6	CON_SMA-EDGE-S	CON-SMA-EDGE-S	1
	GHz PCB Edge Mount				
uSD_CARD_HOLDER		J7	TF115BCP9	uSD_CARD	1
JUMPER_3PIN		JP1	HEADER_1x3_2.54	JUMPER_3PIN	1
47uH	Inductor SMD 0603	L1	IND_5_7	IND_0603	1
2.2uH	Inductor SMD 1008	L2	L0603	IND_1008	1
2.2nH	Inductor SMD 1008	L3, L4	L0603	IND_1008	2
3nH	Inductor SMD 0603	L5	L0603	IND_0603	1
2.5nH	Inductor SMD 0603	L6	L0603	IND_0603	1
15uH	Inductor SMD 0603	L7	IND_3.2_4	IND_0603	1
LED_RED	Typical BLUE SiC LED	LD1	LED0603RD	LED_RED	1
LED_GREEN	Typical BLUE SiC LED	LD2	LED0603GR	LED_GREEN	1
FDS4435		Q1	SOIC-SN8_N	FDS4435	1
FS8205		Q2	SOT23-6	FS8205	1
0R250	Resistor SMD 0805	R1	R2512	RES_0805	1
27k	Resistor SMD 0603	R2	R0603	RES_0603	1
1k5	Resistor SMD 0603	R3	R0603	RES_0603	1
120R	Resistor SMD 0603	R4	R0603	RES_0603	1
3k	Resistor SMD 0603	R5	R0603	RES_0603	1
100R	Resistor SMD 0603	R6, R8	R0603	RES_0603	2
2k	Resistor SMD 0603	R7	R0603	RES_0603_1	1
		R9, R10, R11, R12,			
5.1k	Resistor SMD 0603	R13, R14	R0603	RES_0603	6
PTS645SM43SMTR92	O. dash	CLAVA	CIAL CUDDACEO10	CIAL DD	
LFS	Switch	SW1	SW_SKRPACE010	SW-PB	1
	LiFePO4 charge IC				
	with integrated MPPT				
CN2001	and wide input range		CCOD 10	CN2001]
CN3801	(4.5 to 28V) with	U1	SSOP-10	CN3801	1
	deeply discharged cell				
L	revive		<u> </u>	<u> </u>	<u> </u>
HY2112	LiFePO4 protection IC	U2	SOT23-6	HY2112	1
	Buck-Boost Switching				
	Regulator IC Positive				
TPS63000	Adjustable 1.2V 1	U3	VREG_V62/16624-	TPS63000	4
11 303000	Output 1.6A _Switch_	03	01YE	11 303000	'
	10-VFDFN Exposed				
	Pad				
	16M-BIT SERIAL FLASH				
W25Q16JVUXIQ	MEMORY WITH	ш	SOIC-8N_208mil	W25Q16JVUXIQ	.
NYTA I PIANTYI Ö	DUAL/QUAD SPI USON	U4	3010-8IN_208MII	NY Z5Q 16JVUXIQ	1
	8				
	Ultra-Low-Power SoC				
	with RISC-V				
	Single-Core CPU				
ESP32-C3	Supporting IEEE	U5	QFN-32-5x5x0.85mm	ESP32-C3	1
	802.11b/g/n (2.4 GHz				
	Wi-Fi) and Bluetooth®				
	5 (LE)				
	Low power LoRa				
SX1280	transceiver operating	U6	OEN 24 4v4 0 5	SX1280	.
JA 120U	at 2.4GHz with ranging	00	QFN-24_4x4_0.5	3A120U	'
	capability				
ST25DV04K	ST25DO4K NFC	U7	SOIC-SNR M	ST25DV04K	- 1
21∠2DVU4K	module with I2C	U/	SOIC-SN8_N	3125DVU4K	1
	Crystal SMD 4-Pin		CRYSTAL_ECX-		
40 MHz	3225x4	Y1	32_3.2x2.5x0.8 -	XTAL_2016	1
			duplicate		
32.768kHz	Crystal	Y2	CRYSTAL_SX-3215	CRYSTAL_1	1
52MHz	Crystal	Y3	CRYSTAL_2016_4P	Crystal	1