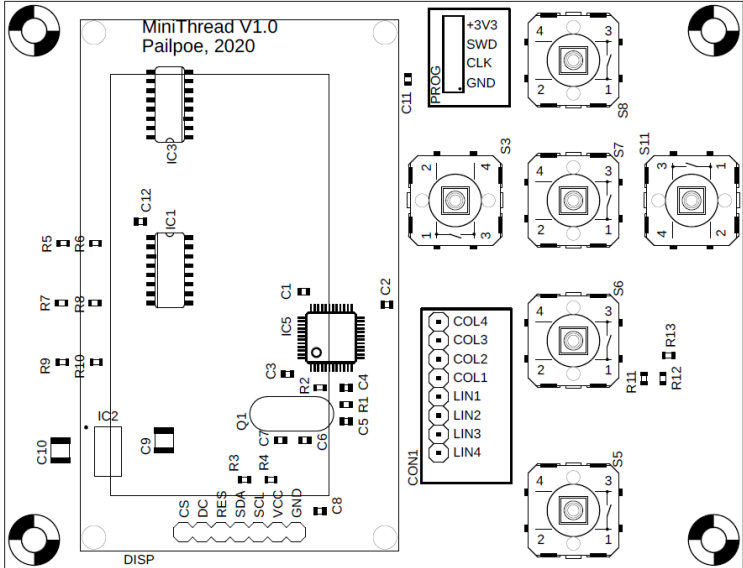
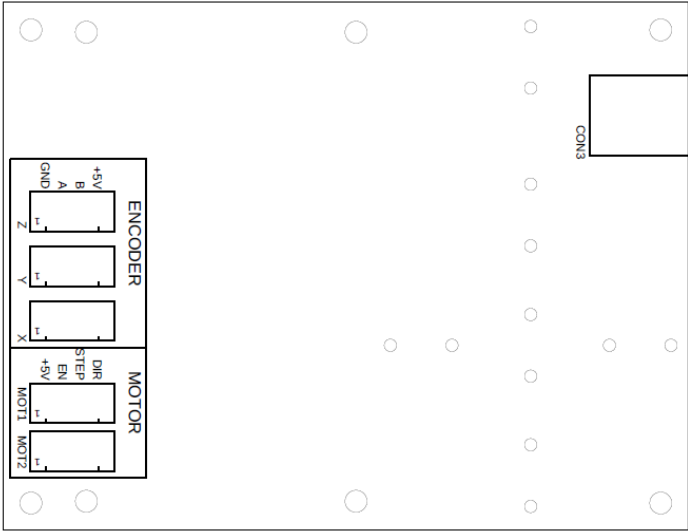
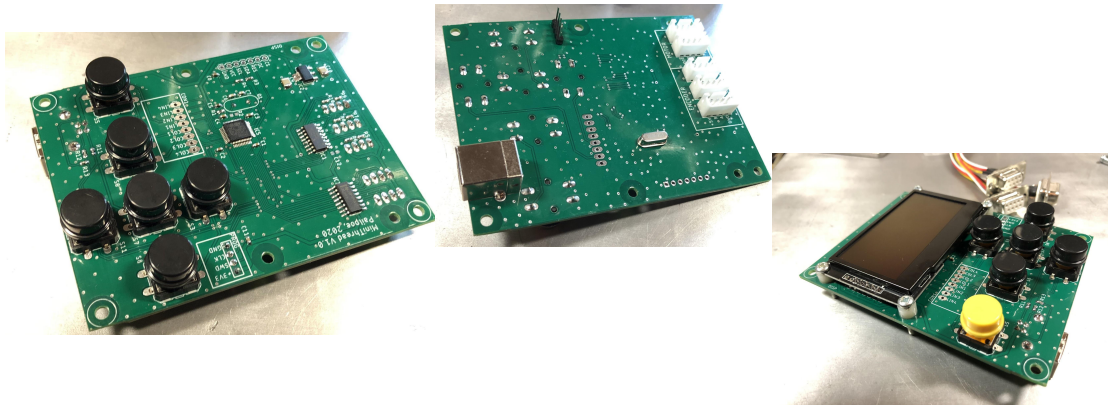
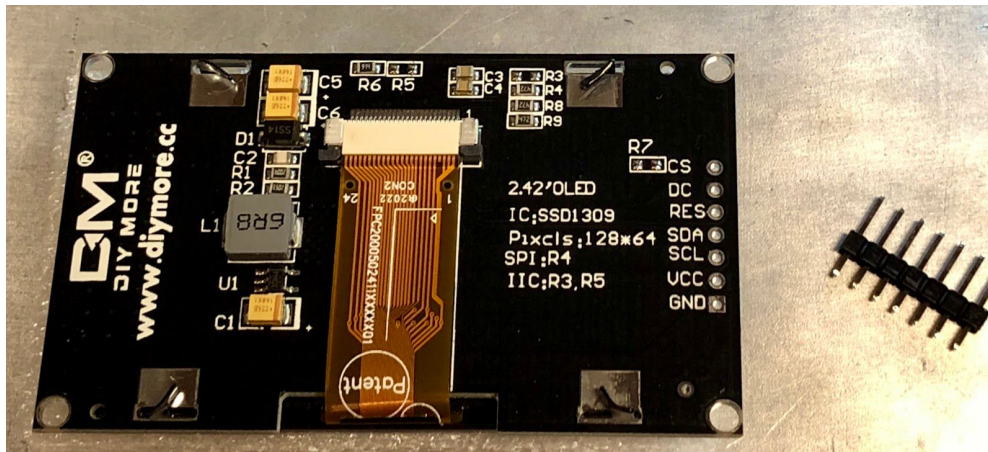


BOM			
Product Name	PCBA_MiniThread	Creator	G.Pailleret / Pailpoe (guillaume.pailleret@gmail.com)
Ref product	/	Rev	1
Date	11/10/2020		
Remarks	<p>Q1, CON1 and PROG mount on the bottom side !!</p> <p><b>DISP : The Oled screen need to be modified , see the document !!</b></p> <p>No need to mount CON1 ( switch extension)</p> <p>Use 4mm nylon spacer with screw for the screen ( 8mm between the top of the screen and the top of the pcb)</p>		
Implantation :			
Top :	<p>SIZE : 77 x 100</p> 		
Bottom :			
Pictures :			

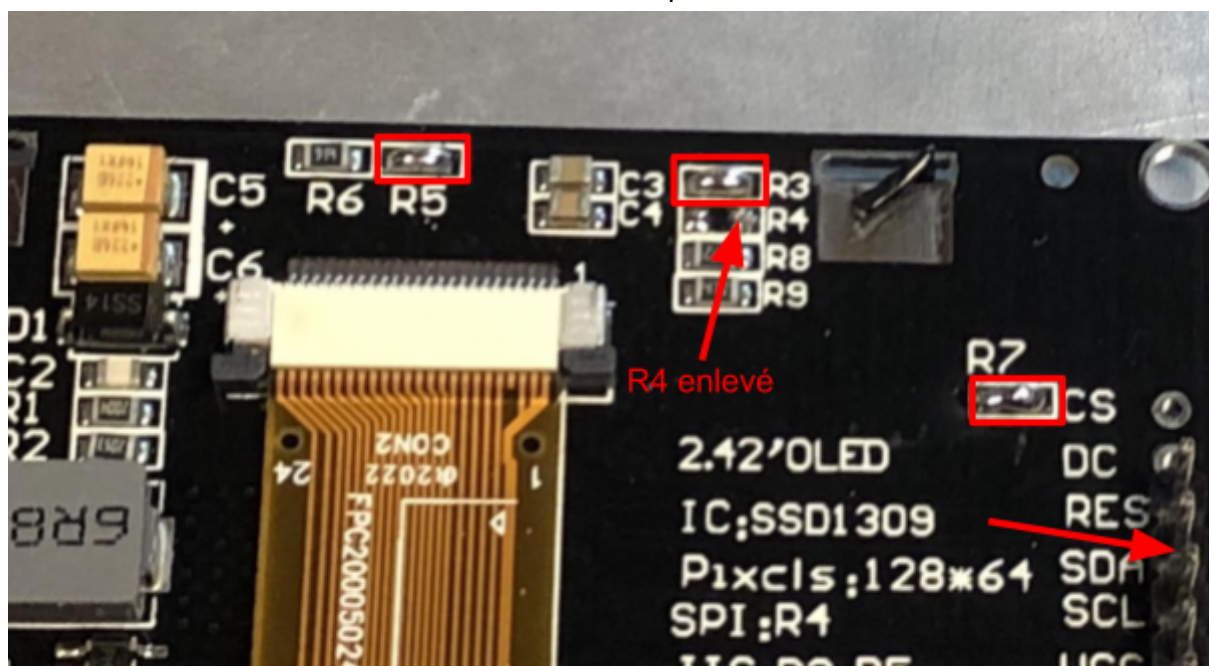
Rep	Desc	Qté	Fab / Ref	Fournisseur / co	Unit Price ttc €	Total price ttc €
PCB	PCB MinThread V1.0	1	Perso	PcbWay	2	2
DISP	2.42" inch 12864 OLED Display Module IIC I2C SPI, WHITE, DIYMORE	1	?	Aliexpress	12	12
IC5	Microcontrôleur, 32bit, STM32F, 128 Ko Flash, 72MHz, LQFP 48	1	STM / STM32F103CBT6	RS / 402273	5,1	5,1
IC1	Hex non-inverting HIGH-to-LOW level shifter 74HC4050D, SO16	1	Nexperia / 74HC4050D	RS / 4836544	0,27	0,27
IC2	Régulateur LDO, 3,3 V, 800mA, SOT-223	1	TI / LM1117MP-3.3/NOPB	RS / 5339577	1,13	1,13
IC3	7-ChannelRelay and InductiveLoad Sink Driver ULN2003LVDR, SO16	1	TI / ULN2003LVDR	RS / 8095475	0,5	0,5
Q1	Quartz, 8MHz, ±30ppm, HC-49-SLF, 2 broches	1	Fox Electronics / FOXSLF/080	RS / 5476200	0,35	0,35
R1	R SMS 0603 10K 5%	1	Common components			0
R2	R SMS 0603 1M 5%	1	Common components			0
R3, R4, R5, R6, R7, R8, R9, R10, R13	R SMS 0603 1K5 5%	9	Common components			0
R11, R12	R SMS 0603 20 5%	2	Common components			0
C1, C2, C3, C4, C8, C9, C11, C12	C SMD 0603 100nF ±10% 50 Vcc X7R	8	Common components			0
C5	C SMD 0603 1µF 25 Vcc X7R	1	Common components			0
C6, C7	C SMD 0603 20pF 50 Vcc COG	2	Common components			0
C9	C SMD 1210 100µF 10 Vcc X5R	1	Common components			0
C10	C SMD 1210 10µF 10 Vcc X5R	1	Common components			0
CON3	USB Shielded I/O Type B Receptacle, Right-Angle	1	Molex / 67068-8000			0
X, Y, Z, MOT1, MOT2	Through-hole-mounting JST-XH connector 4 pts 2.54mm	5	?	Aliexpress	0,1	0,5
S3, S5, S6, S7, S8, S11	Through-hole-mounting Switches 12 x 12 mm type B3F-4050	6	Omron / B3F-4050	copie Aliexpress	0,1	0,6
CAP1-6	Tactile Switch Key Top Black Diam 9.5x7 for B3F-405x	6	Omron / B32-1610	copie Aliexpress	0,1	0,6
End						

# Préparation de l'écran

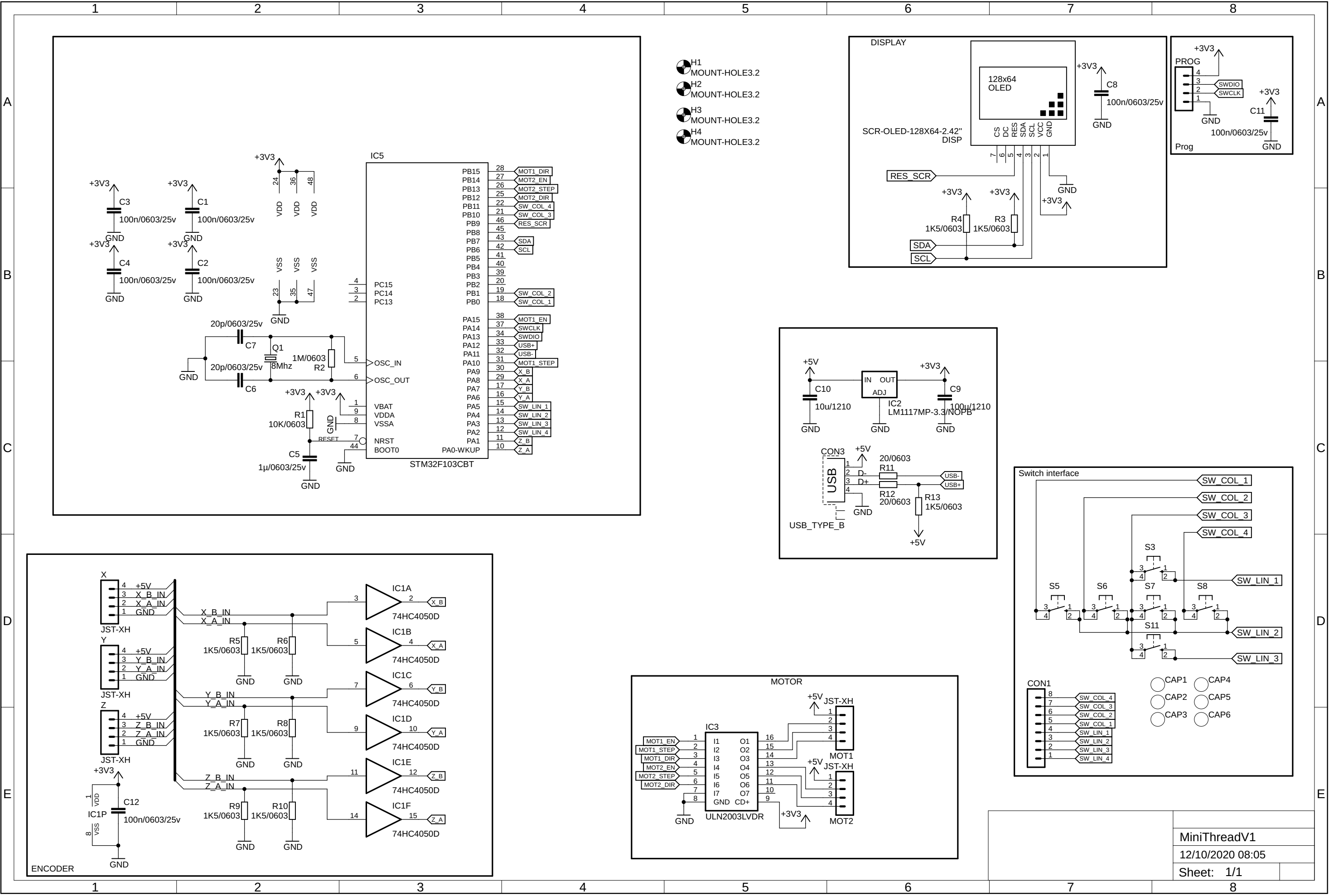
L'écran à besoin d'être préparé pour être utilisé avec une communication I2C



1. Souder le connecteur ( les contacts DC et CS ne sont pas utilisés)
2. Supprimer la Résistance R4
3. Mettre une résistance de 0 ohm ou faire un pont sur R3,R5 et R7



L'écran est prêt !!



SIZE : 77 x 100

