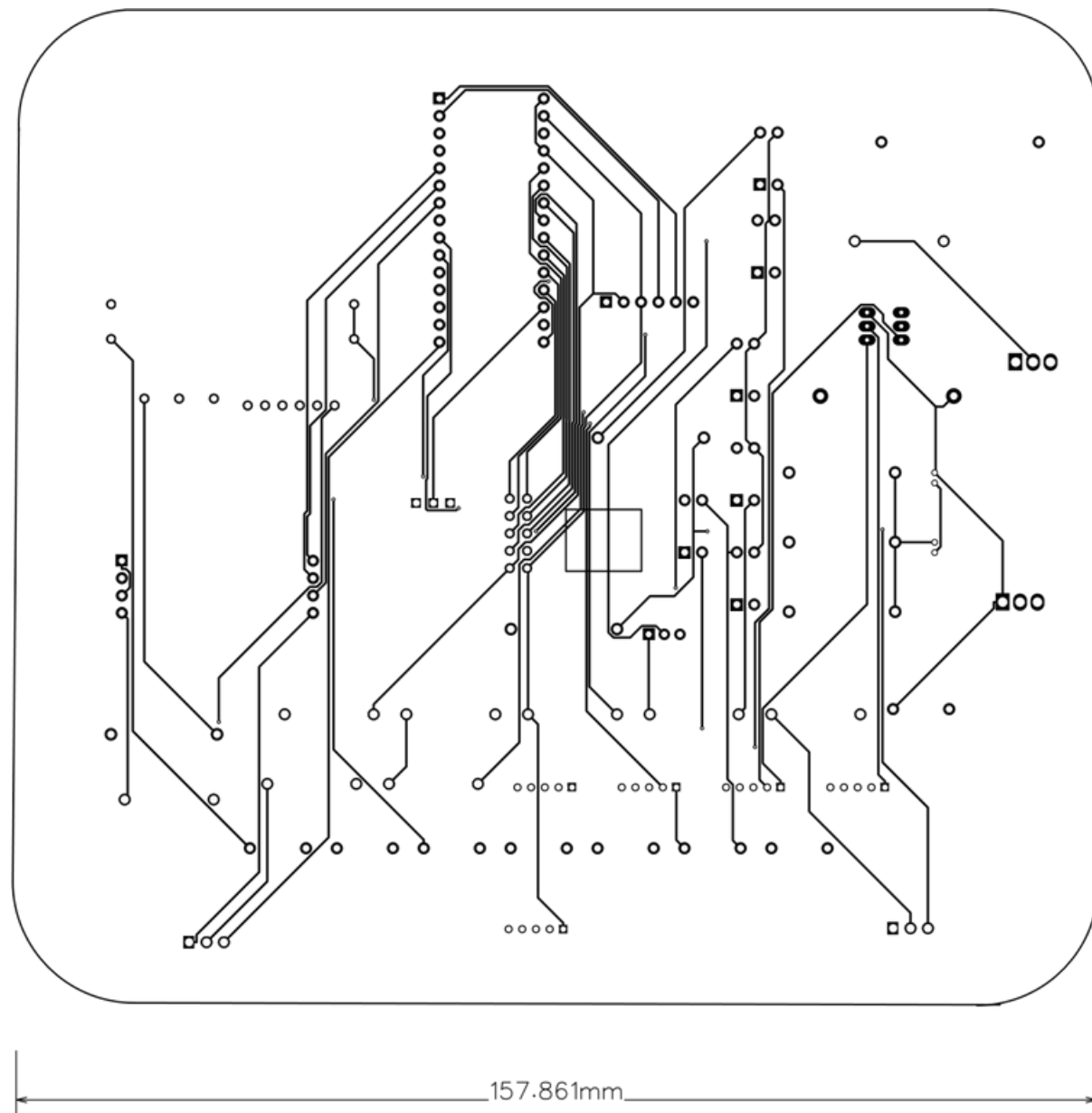


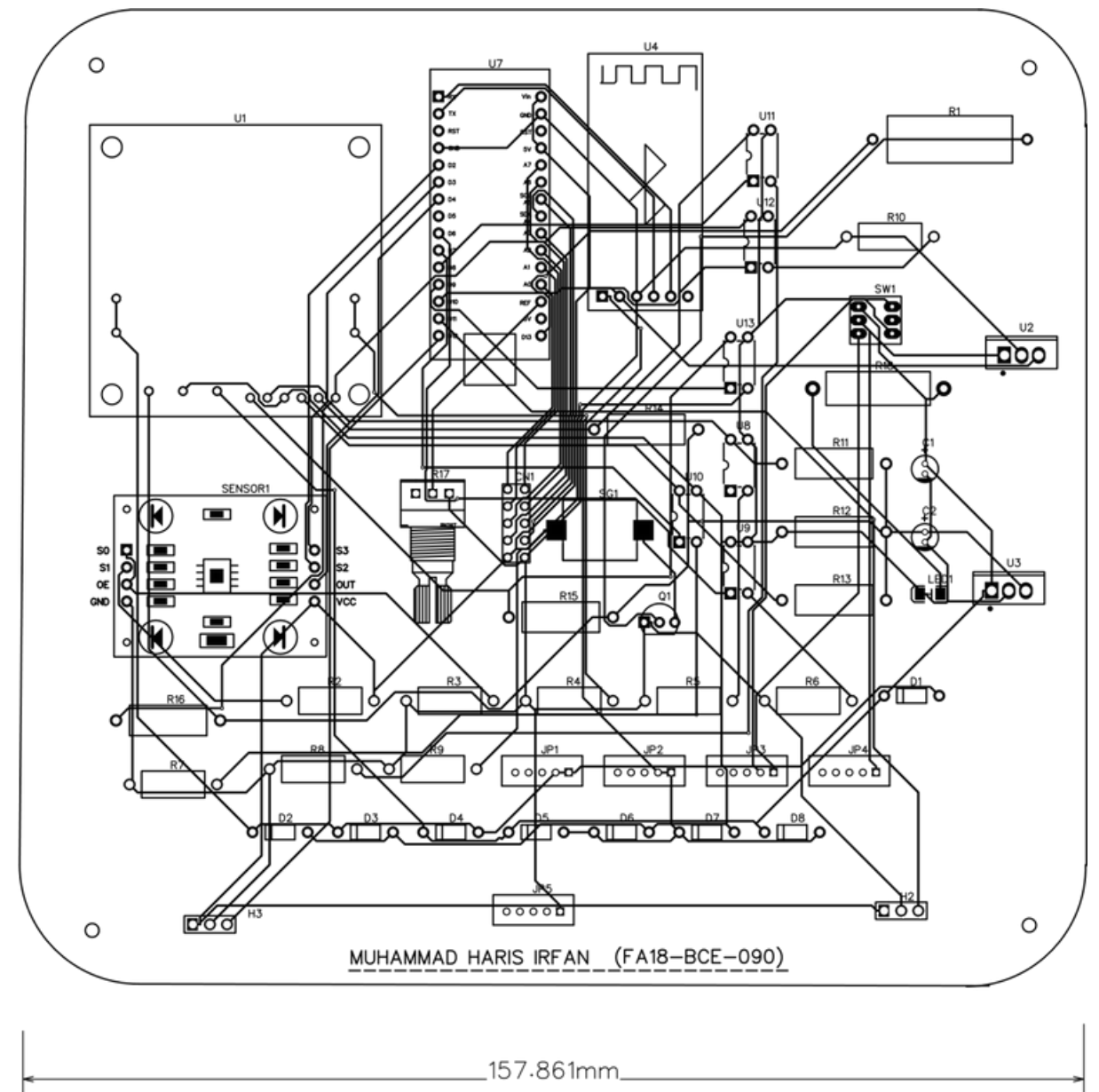
LAB 10

Robain PCB

Bottom Copper layer



All Four layer

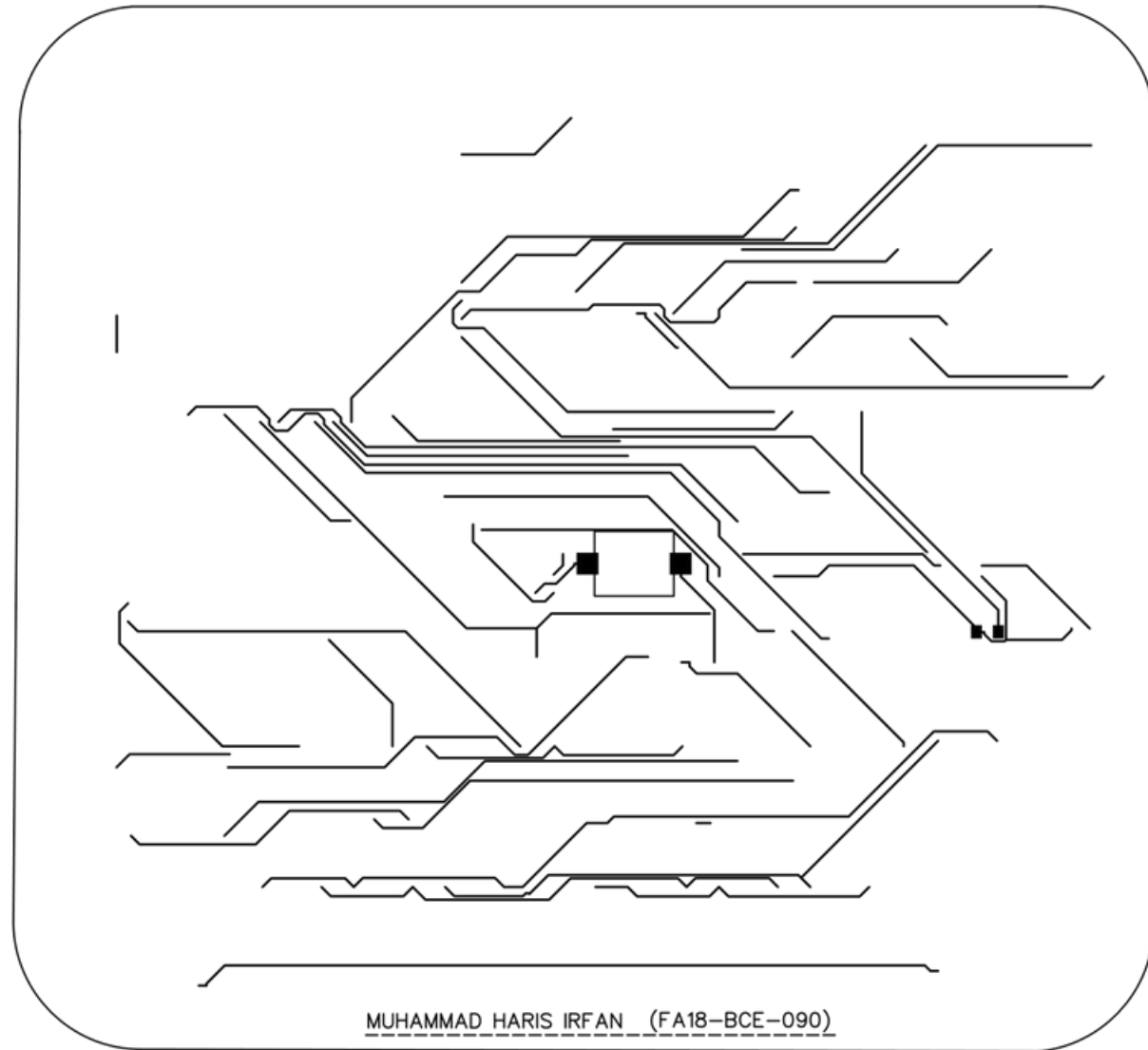


Submitted by Mohammad Rohan

Submitted to Muhammad Imran Saeed Lodhi

Date: 28-09-20

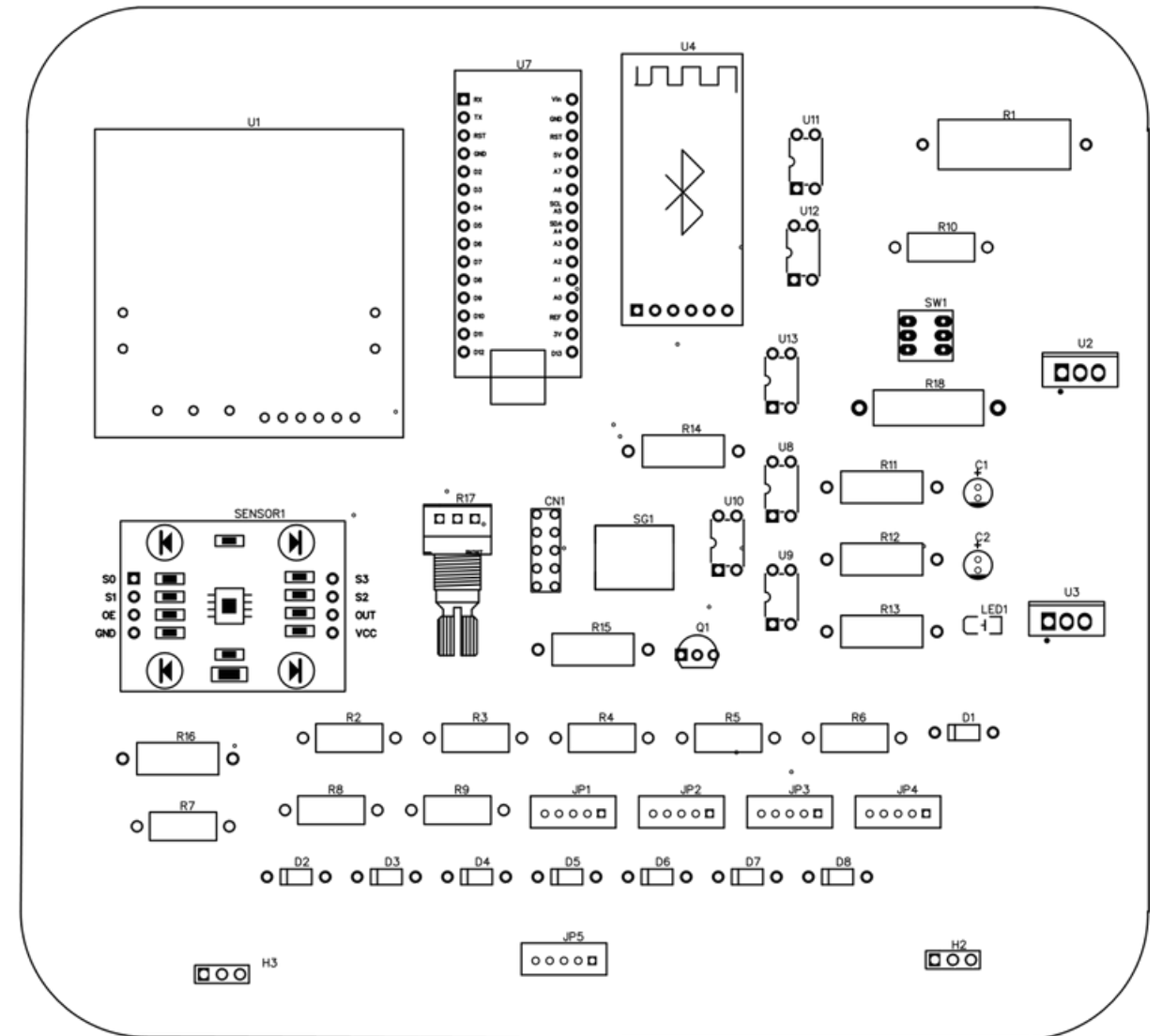
Tom Copper layer



MUHAMMAD HARIS IRFAN (FA18-BCE-090)

157.861mm

Top Silk layer



157.861mm

Components Used

ID	Name	Designator	Footprint	Quantity
1 1N4448		D1,D2,D3,D4,D5,D6,D7,D	DO-35_BD2.0-L4.2-P8.20-D0.5-R-	8
2 L298N		8 U1	RD L298N	1
3 10K		R17	RES-ADJ-TH_RK097111080J	1
4 DPDT_SWITCH 6P		SW1	6 PIN PUSH SWITCH	1
5 TCS230 TCS3200 COLOR SENSOR 6		SENSOR1	TCS230 TCS3200 COLOR SENSOR	1
1.8K		R11,R12,R13,R14,R15,R16	RES-TH_BD4.5-L11.5-P15.50-D0.7	6
7 220		R5,R6,R7,R8,R9,R10	RES-TH_BD3.5-L9.0-P13.00-D0.8	6
8 817		U8,U9,U10,U11,U12,U13	DIP-4_L4.6-W6.5-P2.54-LS7.6-BL	6
9 100		R1	RES-TH_BD6.0-L17.5-P21.50-D0.8	1
10 0.1uF		C1,C2	CAP-D4.0XF1.5 TO-220-3_L10.0-	2
11 LM7805T		U2	W4.5-P2.54-L TO-220-3_L10.0-	1
12 U16		U3	W4.5-P2.54-L BUZZER-CMT1102	1
13 BUZZER		SG1	2X5	1
14 2X5		CN1	RES-TH_BD3.5-L9.0-P13.00-D0.8	1
15 4.7K		R2,R3,R4	BT HC-05	3
16 BT_HC-05		U4	LED1206-R-RD	1
17 POWER		LED1	2N3904	1
18 2N3904		Q1	RES-TH_BD5.0-L15.5-P19.50-D0.7	1
19 640		R18	B5B-PH-K-S	1
20 R1		JP1	B5B-PH-K-S	1
21 _MOTOR		JP2	B5B-PH-K-S	1
22 2PIN		JP3,JP4,JP5	HDR-TH_3P-P2.54-V	3
23 Header-Male-2.54_1x3		H2,H3	ADN 2.54 15.24	2
24 arduino_nano		U7		1