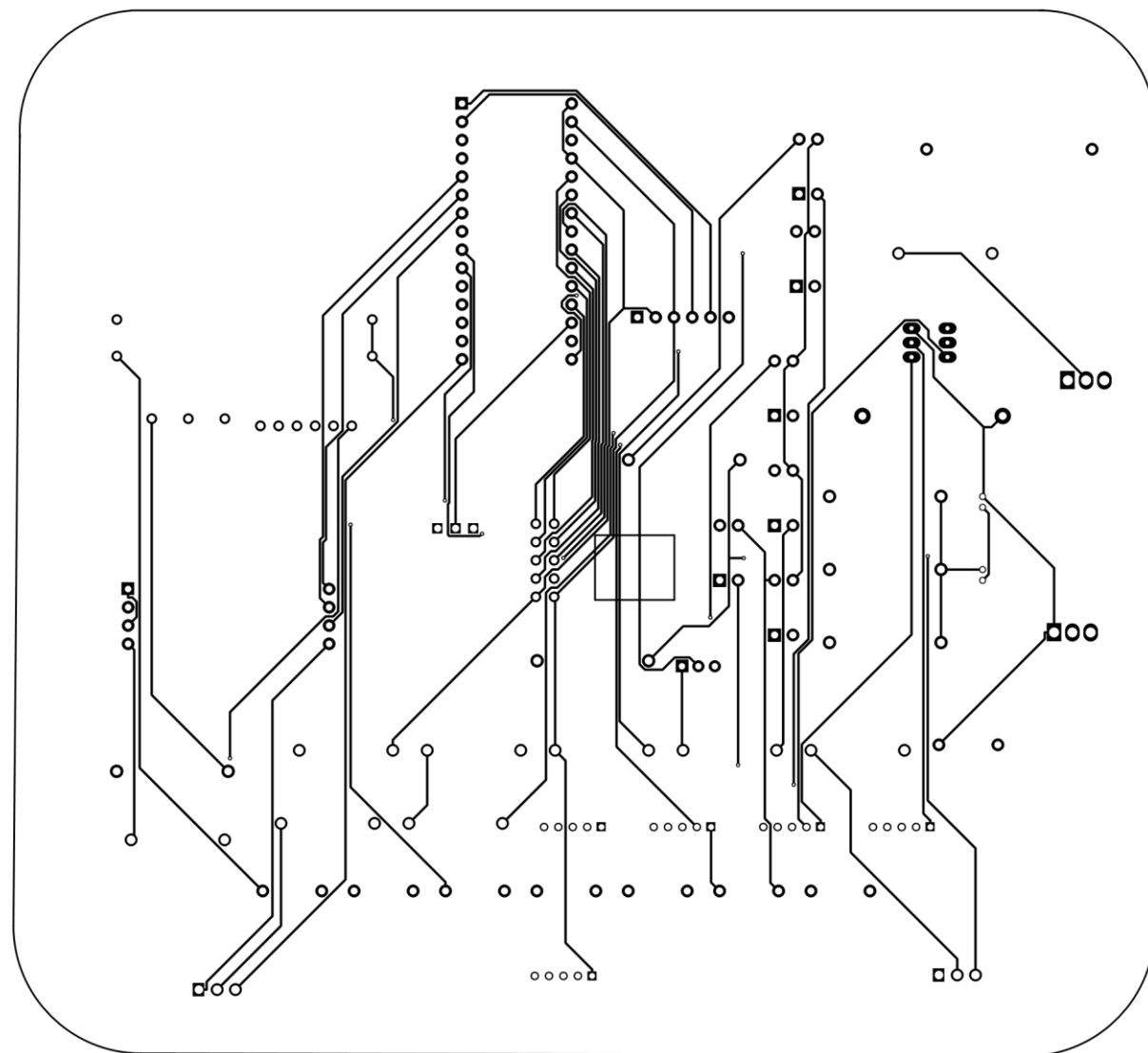


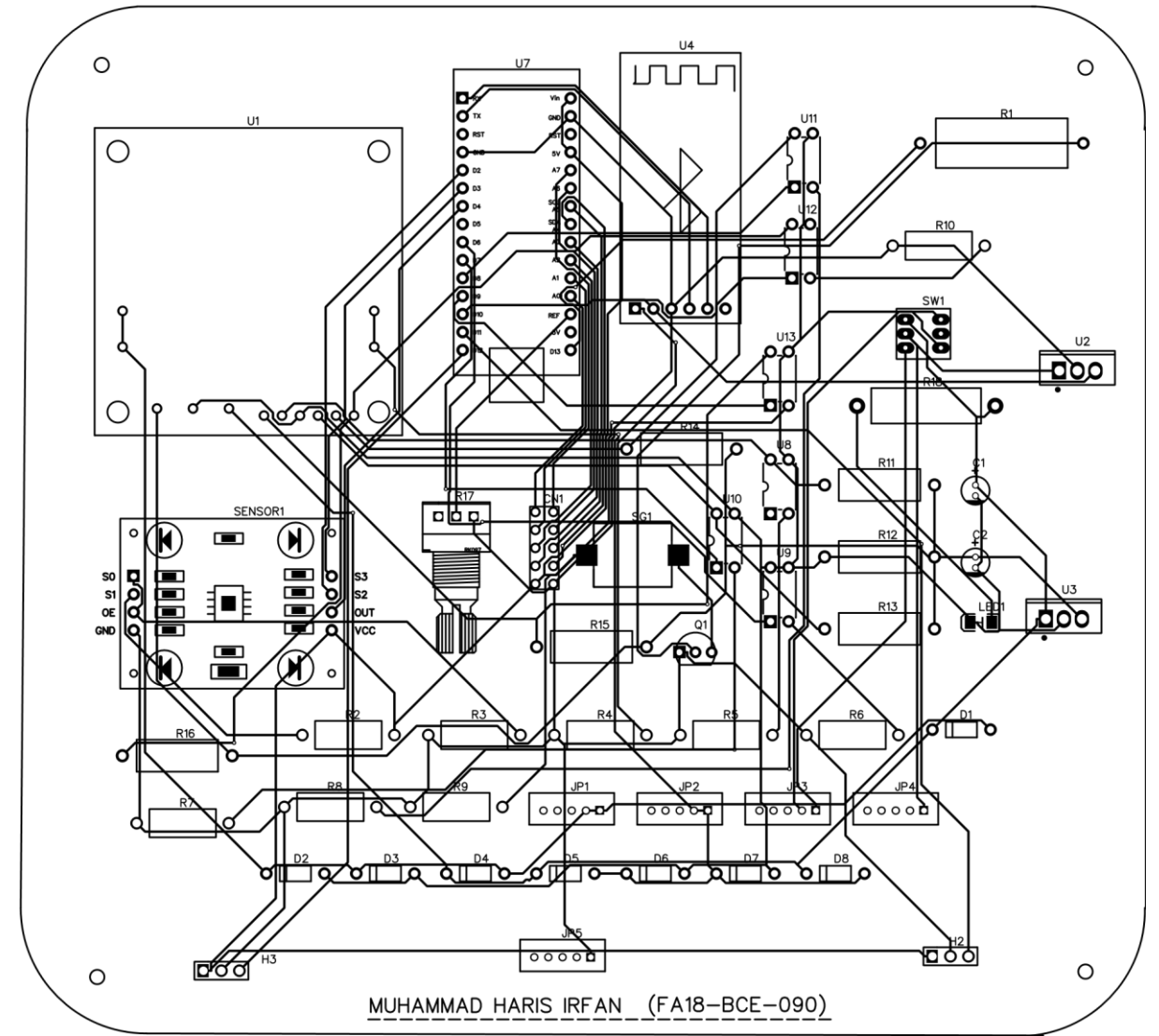
# LAB 10

## Robain PCB

Bottom Copper layer



All Four layer

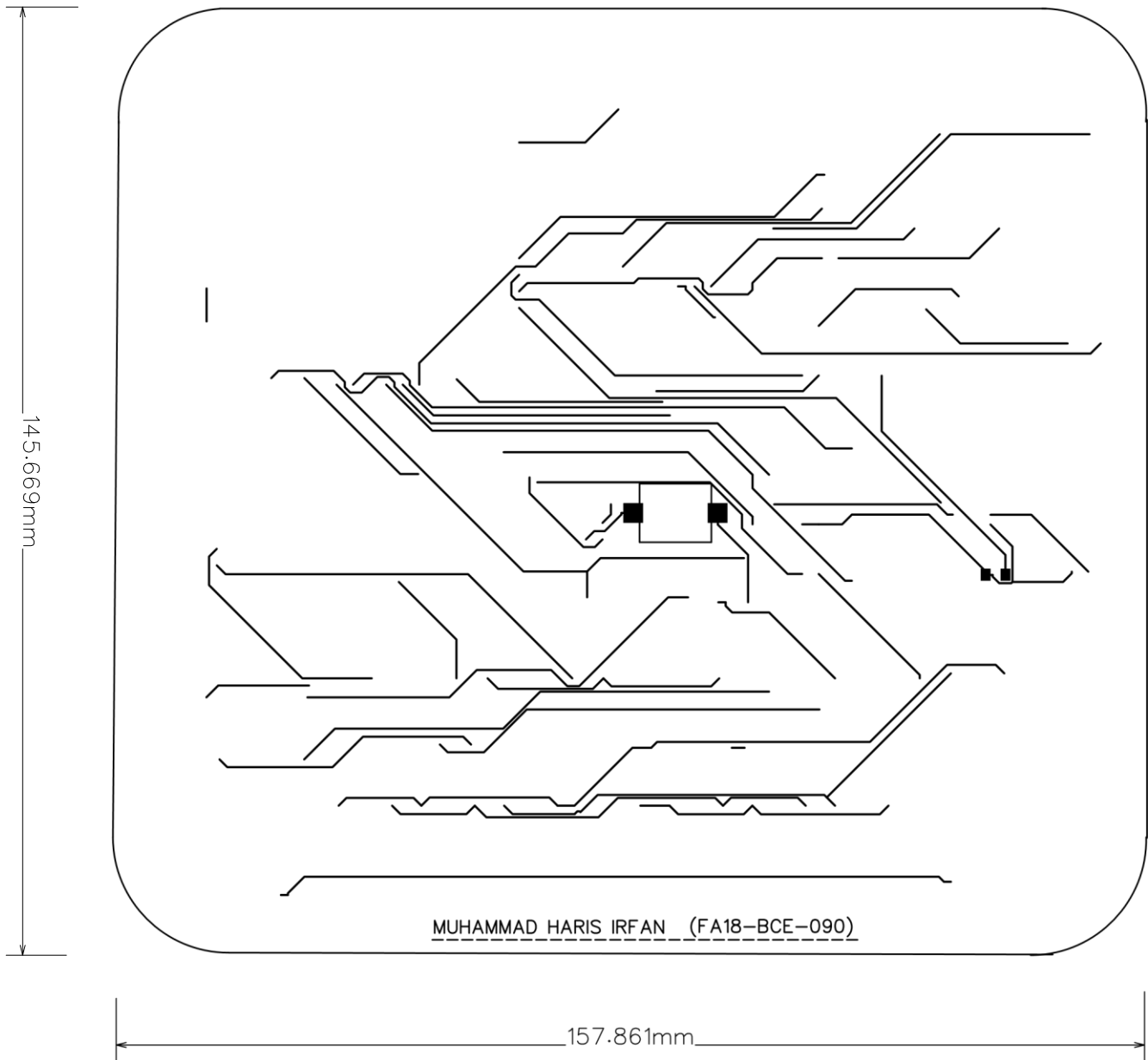


Submitted by Muhammad Haris Irfan

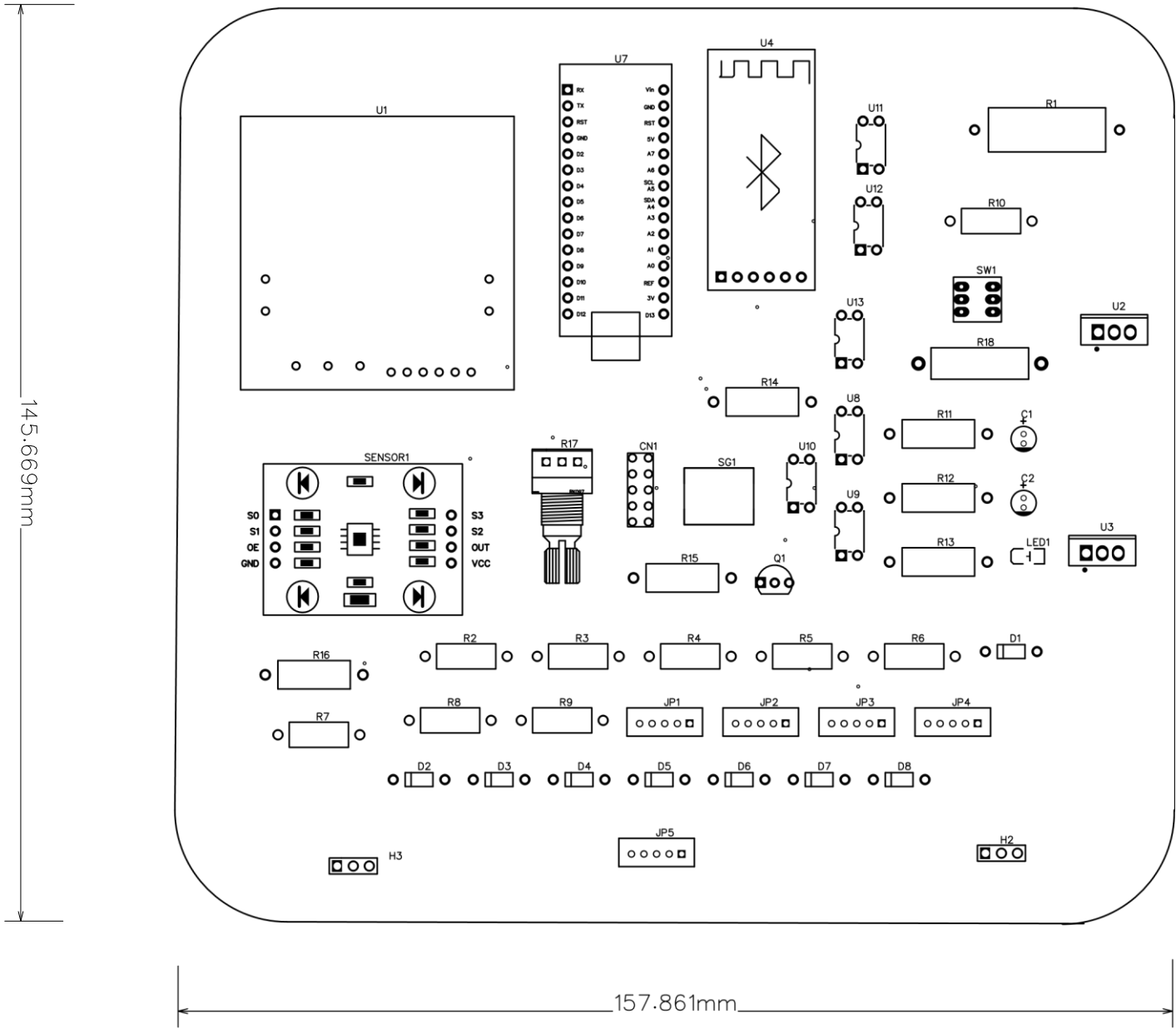
Submitted to Muhammad Imran Saeed Lodhi

Date: 28-09-20

Tom Copper layer



Top Silk layer



## Components Used

ID	Name	Designator	Footprint	Quantity
1	1N4448	D1,D2,D3,D4,D5,D6,D7,D8	DO-35_BD2.0-L4.2-P8.20-D0.5-R-RD	8
2	L298N	U1	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	SENSOR1	TCS230 TCS3200 COLOR SENSOR	1
6	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	2
11	LM7805T	U2	TO-220-3_L10.0-W4.5-P2.54-L	1
12	U16	U3	TO-220-3_L10.0-W4.5-P2.54-L	1
13	BUZZER	SG1	BUZZER-CMT1102	1
14	2X5	CN1	2X5	1
15	4.7K	R2,R3,R4	RES-TH_BD3.5-L9.0-P13.00-D0.8	3
16	BT_HC-05	U4	BT HC-05	1
17	POWER	LED1	LED1206-R-RD	1
18	2N3904	Q1	2N3904	1
19	640	R18	RES-TH_BD5.0-L15.5-P19.50-D0.7	1
20	IR1	JP1	B5B-PH-K-S	1
21	L_MOTOR	JP2	B5B-PH-K-S	1
22	2PIN	JP3,JP4,JP5	B5B-PH-K-S	3
23	Header-Male-2.54_1x3	H2,H3	HDR-TH_3P-P2.54-V	2
24	arduino_nano	U7	ADN 2.54 15.24	1