

Fig.1

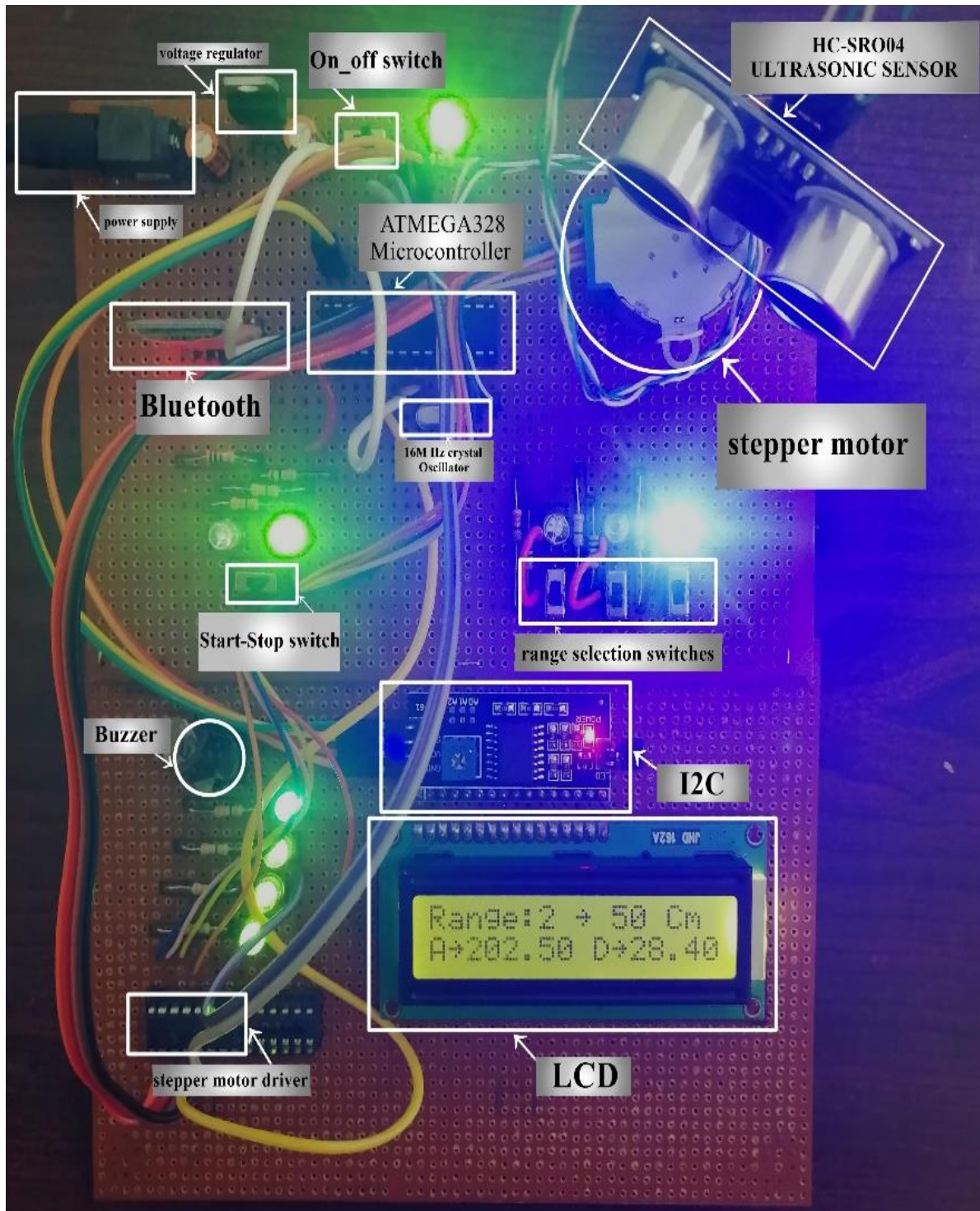


Fig.2



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No. of Sheets: 4

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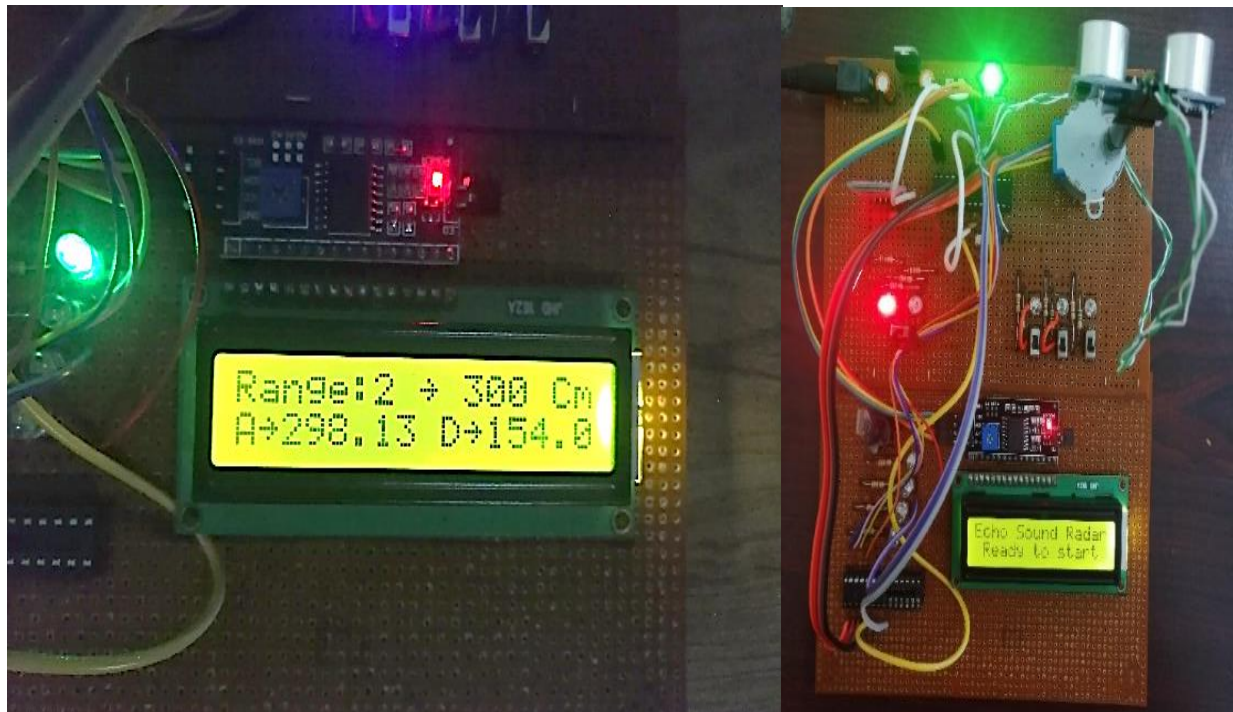


Fig.3

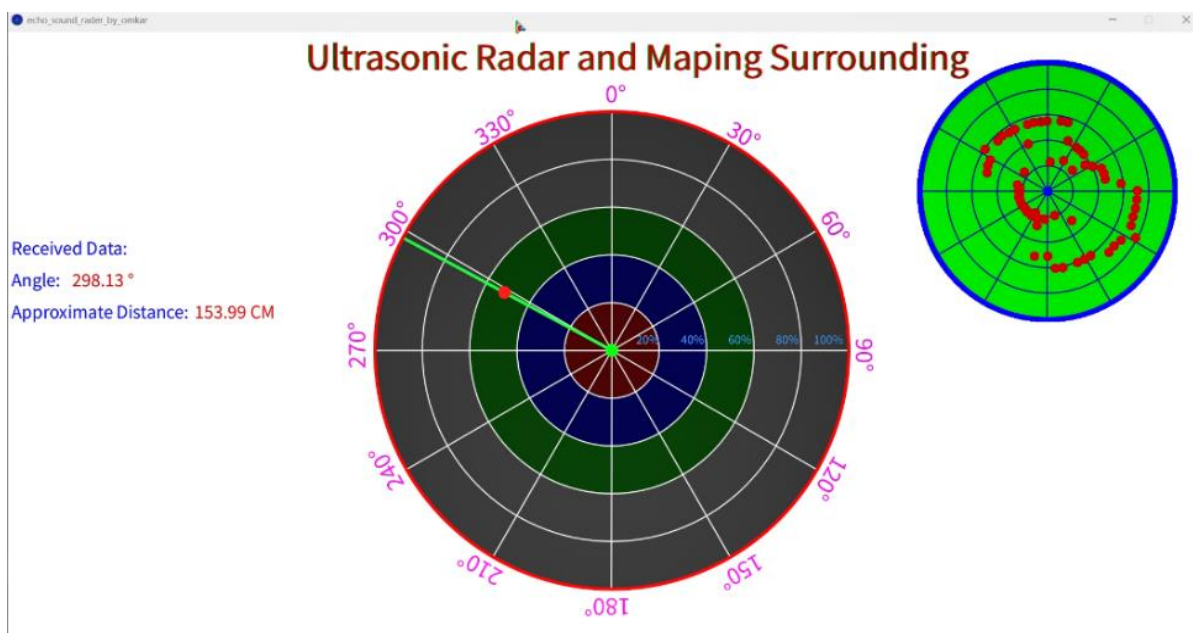


Fig.4

S. No:	Start-stop switch state	Range selection switches state ( $S_2 S_1 S_0$ )	Operation range	Stepper motor Direction
1	1	0 0 0	2cm to 10cm	clock wise
2	1	0 0 1	2cm to 50cm	clock wise
3	1	0 1 0	2cm to 100cm	clock wise
4	1	0 1 1	2cm to 200cm	clock wise
5	1	1 0 0	2cm to 300cm	clock wise
6	1	1 0 1	2cm to 400cm	clock wise
7	1	1 1 0	2cm to 400cm	clock wise
8	1	1 1 1	2cm to 400cm	clock wise
9	0	1 1 1	stepping with 2s delay.	Anti-clock wise

Fig.5

S. No:	Steps	Angle of sensor (degrees)	Distance sensed (Cm)
1	0	0	164.31
2	8	45	124.8
3	16	90	215.7
4	24	135	99.3
5	32	180	56.31
6	40	225	66.69
7	48	270	68.61
8	56	315	151.89
9	64	360	164. 31

Fig.6