

# Chemist Helper

## Abstract

In the chemist shop, the medicines are arranged according to alphabetic order. When customer comes to buy particular prescribed medicine, Chemist helper found the medicine from particular box, which arranged according to alphabetic order. For every medicine he has to go here and there. This process is time consuming and cumbersome.

The solution for this problem is this project “Chemist Helper.” In this project prototype of platform assembly will be developed. On this platform, medicine boxes will be arranged according to alphabetic order. The assembly will be rotating assembly with the help of motor. The motor rotation will be control by microcontroller board.

The GUI for the project will be developed in MATLAB. Through GUI code for particular alphabet will be send to embedded system board. To this board motor will be connected which controls the motion of motor. The signal to the motor will be control by embedded processor AT89c51.

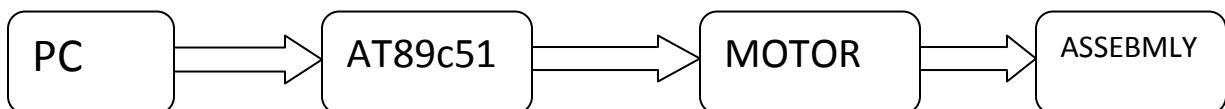


Fig. Block Diagram Of Chemist Helper

Figure shows the block diagram of the system. For the system we required computer with MATLAB software. The GUI for the project will be developed in MATLAB. The main controlling unit for the system is embedded system board, developed with AT89C51 microcontroller. With the help of board, rotation of motor will be control, which will control the rotation of assembly, as per the alphabetic code received from PC.

### Component Required

1. PC with MATLAB

2. Microcontroller 89c52
3. DC Motor
4. Assembly should be developed as per requirement.
5. Driver IC L298
6. Cap 1000uf,100uf,10uf,33pf.
7. Res 10k
8. IR TX RX Sensor
9. OPAMP L358
10. Variable res 10k
11. LED
12. Diode In4007
13. Transformer 12-0-12/1A
14. IC 7805

1. Microcontroller 89c52	50/-
2. DC Motor	200/-
3. Assembly should be developed as per requirement.	1500/-
4. Driver IC L298	110/-
5. Cap 1000uf,100uf,10uf,33pf.	5/-
6. Res 10k	2/-
7. IR TX RX Sensor	20/-
8. OPAMP L358	12/-
9. Variable res 10k	3/-
10. LED	0.75/-
11. Diode In4007	2/-
12. Transformer 12-0-12/1A	90/-
13. IC 7805	10/-
14. PCB (Glass Epoxy)	30/-