EEE4010 - Embedded Systems

Tutorial 4

Name: Abhishek Srivastava.
Reg No: 19BCE10071

1]

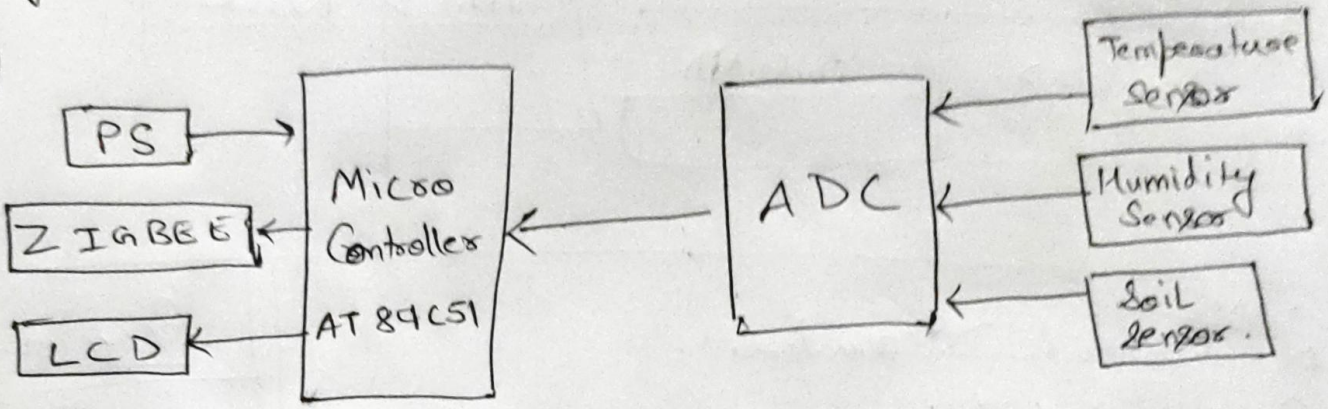
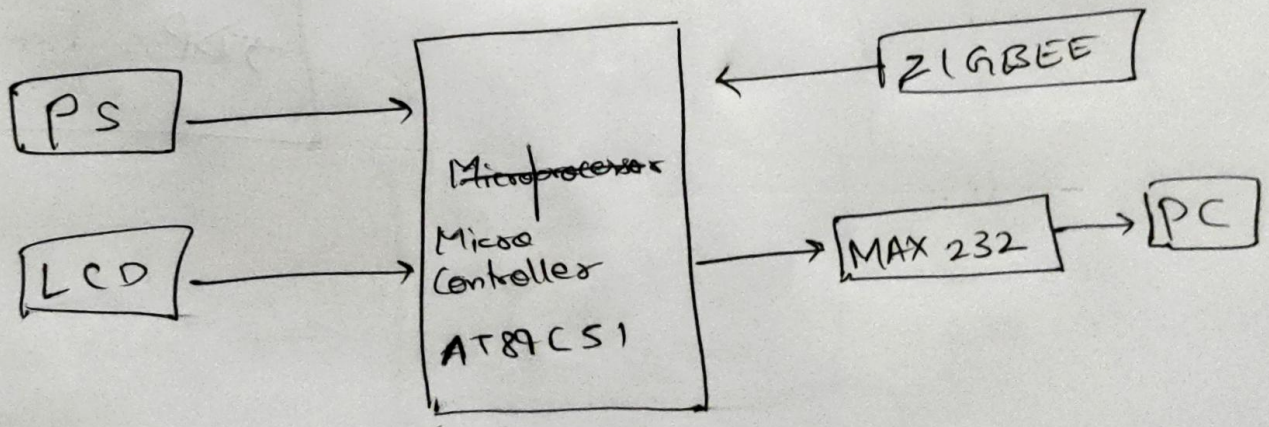


Fig 1 : Transmitter section.

- Analog values from sensors are fed to ADC.
- ADC converts analog signals to digital signals. ~~upto~~ up
  ZIGBEE to send collected values to recovery stations.
- LCD displays the corresponding value.



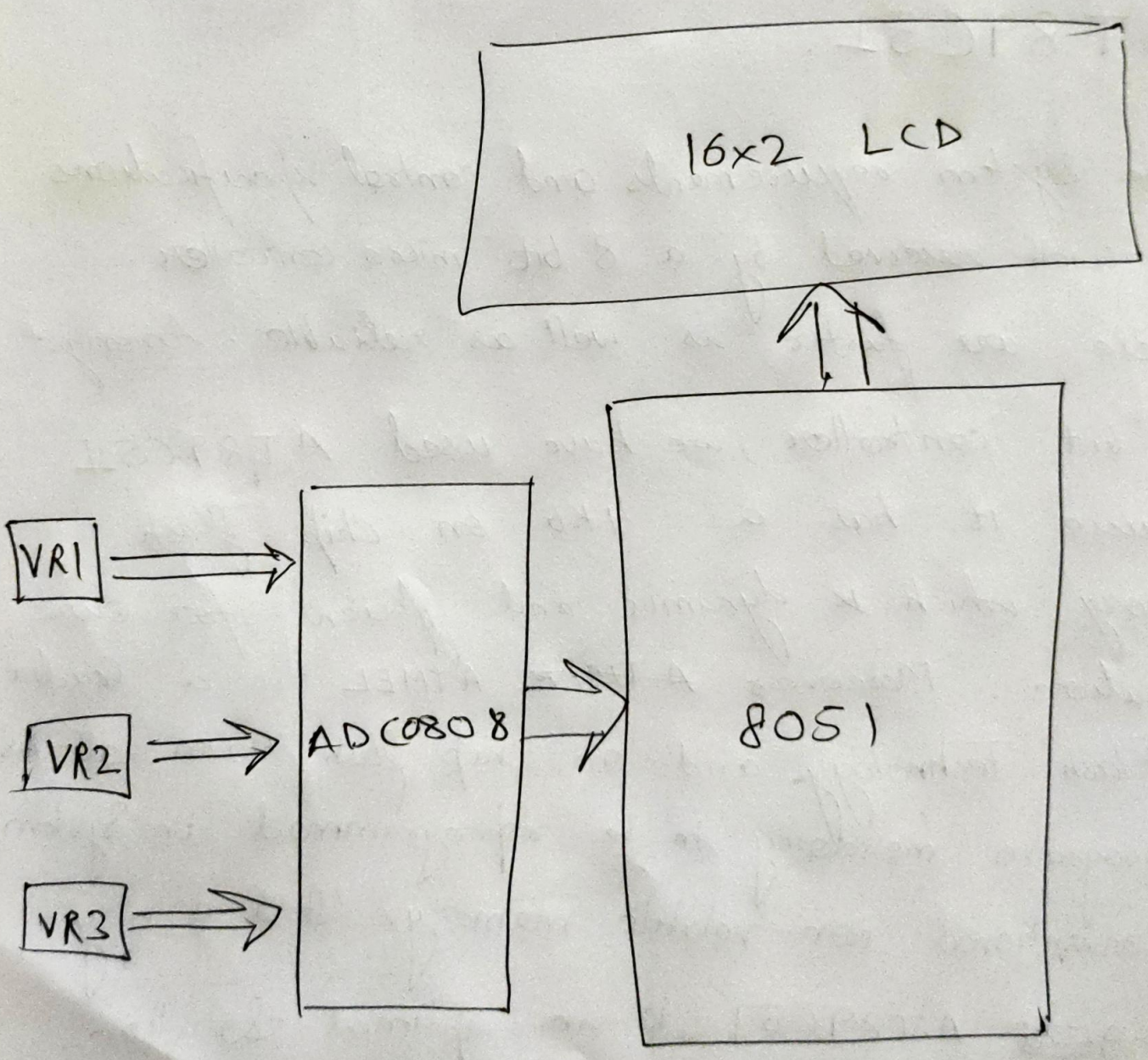
- ZIGBEE recieves the data from transmitting ZIGBEE and fed it to up.
- These values are send to PC through ports.
- Voltage Layer are converted to TTL
- Values are displayed in LCD.

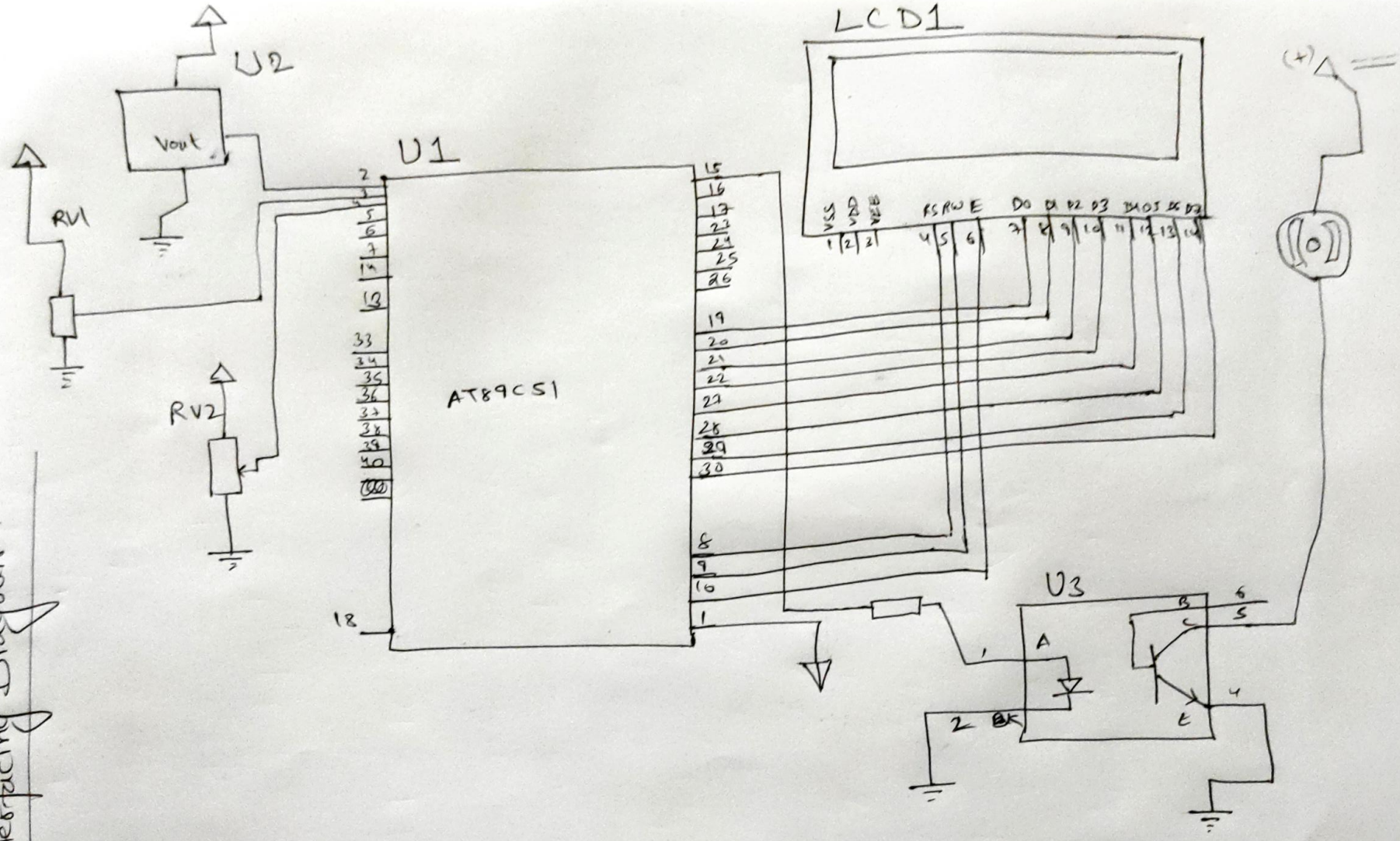
2] AT89C51.

The System requirements and control specifications is well reserved by a 8 bit micro controller. These are faster as well as reliable. Amongst 8 bit controller, we have used AT89C51 because it has a 4Kb on chip flash memory which is dynamic and efficient for our application. Moreover ~~ATMEL~~ ATMEL is a leader in Flash Technology and on chip flash Rom allows the program memory to be reprogrammed in System by conventional non-volatile memory. That is why ~~AT89C51~~ AT89C51 is an optimal Solution.

3].

Block DIAGRAM





Interfacing Diagram