

# **Experiment No:1**

## **DC Motor Position Control via Arduino Mega**

### **AIM**

[Mention the components, peripherals and control used along with the motive of the experiment].

### **OBJECTIVE**

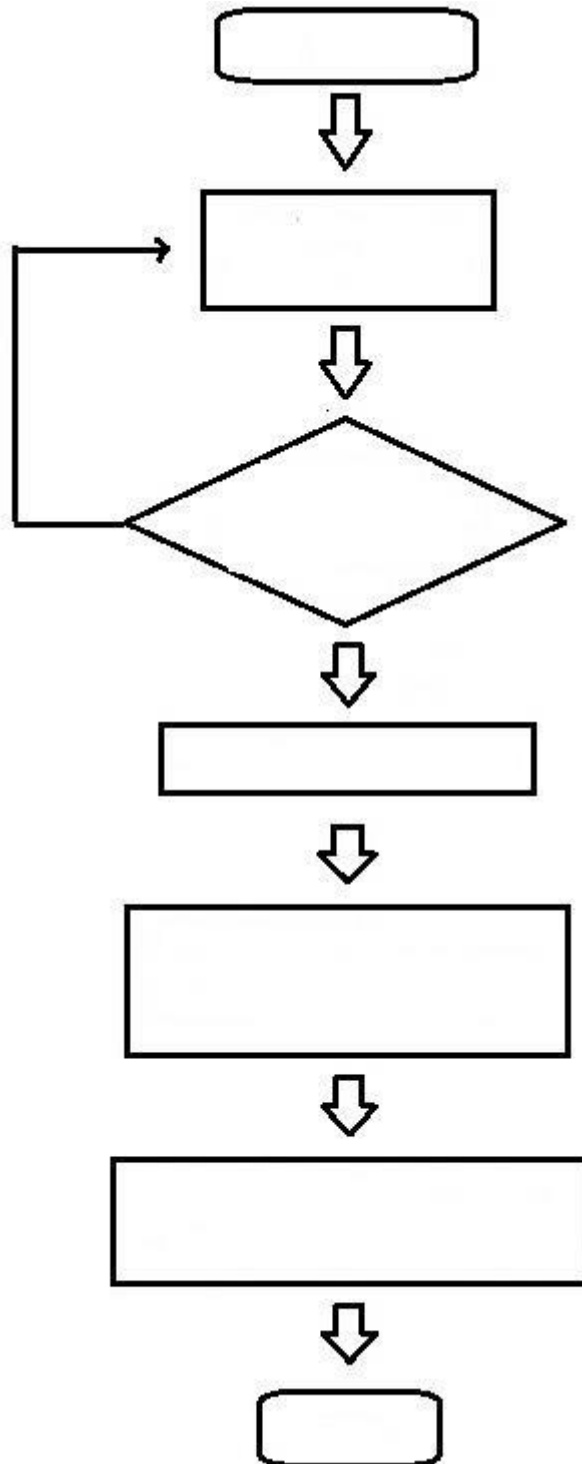
[Mention the motive along with the constraints given in the problem statement].

### **CHALLENGES FACED**

[Include all the impediments faced during the experiment and how you overcame them].

## FLOWCHART

[Depict the logic used for carrying out the experiment in the form of a flowchart, as below].



## **PLOT**

[Insert the plot of angle (degrees) vs time (seconds)].

## **RESULT**

[The result should include the values obtained for all the parameters which are mentioned in the problem statement, i.e. the PID values, rise time, settling time and overshoot.].

## **INFERENCE**

[Write what you have inferred from the experiment].