

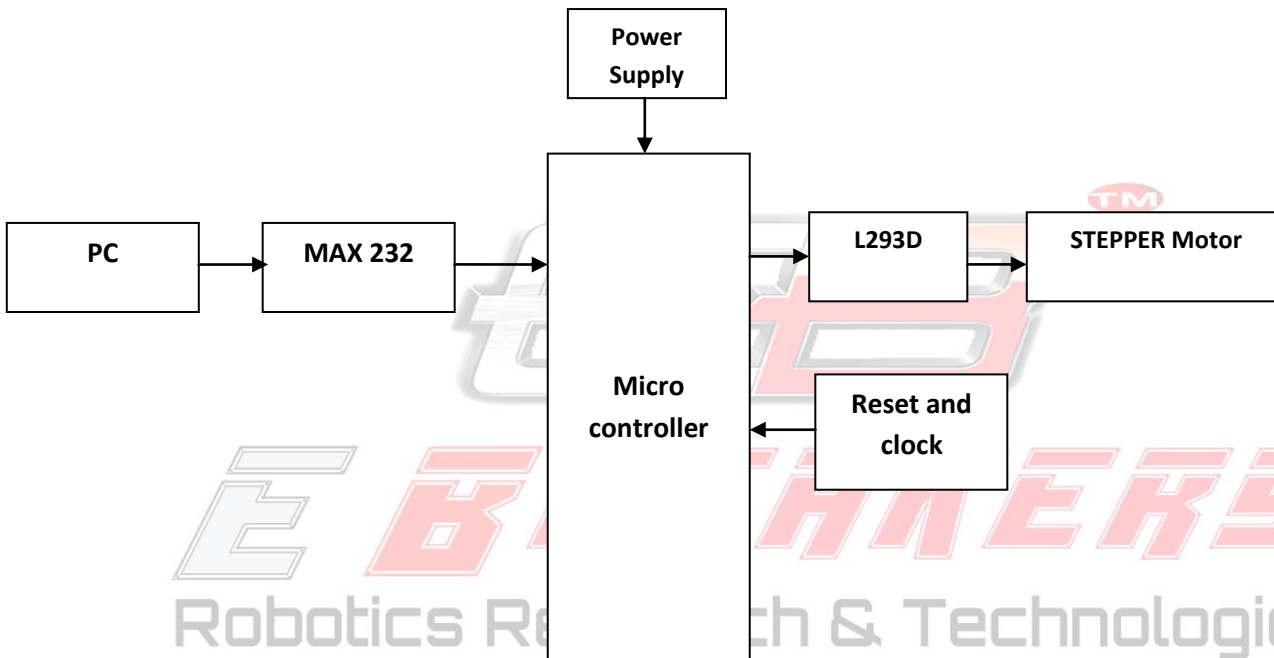
PC BASED WIRELESS STEPPER MOTOR CONTROL

Description:

This project is about making an embedded system in order to control different functionalities of a stepper motor. The main functions of this stepper motor are to control the speed and direction. The whole hardware consists of two parts. One is the transmitter side and the other side is the receiver side. The transmitter side consists of PC, Encoder, a microcontroller and RF (Radio Frequency) transmitter. On the receiver side there is an RF receiver, a decoder, a microcontroller, a motor driver and a stepper motor.

During this project a wireless system is going to be used to enhance the stepper motor operated manually. This system will actually adapt the requirements of the modern technology. With the help of this system one can control the speed of the stepper motor controller from remote sites. It can also control the direction of the stepper motor. In order to make it user friendly we make a GUI for controlling it from the PC. The data is sent and received via transmitter and receiver respectively. This data will be encoded and decoded and sent to the motor driver from where it is sent to the stepper motor in order to perform the operations.

Block diagram:



Hardware requirements:

1. Micro Controller
2. PC
3. L293d
4. Motors
5. MAX 232

Software requirements:

1. Keil software
2. Embedded c

