

Stepper Motor Control by using Microcontroller

Chinmayi Satish Thakare

B.E. Electrical Engineering Final Year

Jawaharlal Darda Institute of Engineering and Technology, Yavatmal, Maharashtra, India

cthakare002019@gmail.com

Abstract: *In present the use of stepper motor is World Wide in many common and precious application various stepper motor are effectively used with lot of advantages and not any disadvantage. It is driven by giving proper square wave pulse to its winding in proper sequence. It is very much accurately controlled by any digital circuitry and AT89c51 is most easy, cheap and reprogrammable microcontroller. Which is mostly used in many industrial automatic controllers application hence , in this paper we are controlling the various parameter of the stepper motor such as speed, direction and number of rotation by using AT89c51 microcontroller*

Keywords: Stepper Motor

REFERENCES

- [1] Perez-Pinal, Nunez, C., Alvarez, R., Cervantes, I., "Comparison Of Multi- Motor Synchronization Techniques Industrial Electronics Society", 30th Annual Onference Of IEEE Volume: 2, Pp 1670 – 1675, Vol. 2 23, May 2005'
- [2] Ramya, C.M.,Shanmugaraj, M. ; Prabakaran, R.,"Study on ZigBee technology" Electronics Computer Technology (ICECT), 2011 3rd International Conferenceon Volume: 6, April 2011
- [3] D. Manojkumar, P. Mathankumar, E. Saranya and S. pavithradevi, "Mobile Controlled Robot using DTMF Technology for Industrial Application", International Journal of Electronics Engineering Research, 2010, 2(3), PP. 349-355.