

## **ABSTRACT**

Stepper motor speed can be controlled with microcontroller. By changing pulse frequency and pulse width can be obtained rotation speed variation and number of step as planned. Stepper motor rotation speed usually linear, rotation with constant speed or constant acceleration. The problem persists when we want the rotation to become sinusoidal. The final assignment is to discuss the design and implementation of sinusoidal mode speed control for a stepper motor and its implementation using an ATmega8 microcontroller.