

## **ABSTRACT**

*For the breeders who have large numbers of chickens, keep them eating all the time can be a difficult task. Generally, farmers sow feed on the feed container using hands and walk along the cages in which the laying hens cages are so large. Such activities for a chicken farmer will take time and effort.*

*Feeding chickens can be facilitated by using mechanical devices that are controlled by electronic equipment. This system is a control device that capable of providing the chicken feed automatically and on schedule. This automation device only can work on laying hens because this type of chickens has individual battery cages. The main system controller uses a microcontroller that connected to an RTC (Real Time Clock) as a timer for feeding chickens based on real time.*

*This automation device has two parts, the main container serves as a place to store food stock, equipped by servo motor and the second container that functioned for the distribution of feed from the beginning until the end of the cage is assisted by a mechanical system by using a DC motor for the movement.*

*The movement of mechanical systems triggered by the RTC as an eating schedule. With the pushbutton and LCD user can set the real time (local time globalization) and the schedules for chicken feed are twice a day. The device is connected with the limit switches that used to stop the servo and DC motors rotation, and the buzzer serves as a marker when chicken feed in the main container has been run out.*

**Keyword** : mikrokontroler, RTC, Servo mototr, DC motor