

ABSTRACT

At this time, many chicken farmers have experienced a fairly large level of loss, usually the cause of the loss is due to a disease that is contagious by chickens or also irregular or excessive feeding of chickens which causes obesity and death of chickens. Usually the chicken farmers feed with a feed container that is sown manually by hand along the size of the chicken drum which causes time and energy waste. Such manual chicken feeding systems in modern times should no longer be used because it not only takes time and energy but the forgetting or excessive feeding of chickens is an important thing which results in bad things for the chickens.

In modern times, we make automatic chicken feed based on a microcontroller that makes it easier for chicken farmers to feed chickens more easily and very efficiently. This automatic chicken feed machine is supported by mechanical devices and controlled by other electronic equipment and this automatic chicken feeder can adjust the feeding schedule so as not to forget and can provide the appropriate dose for chickens.

The design of automatic chicken feed is divided into many parts, including a container to store the chicken feed reserves and a tool for distributing chicken feed. Then there are the electronic devices, namely microcontrollers, ultrasonic sensors, relays, DC motors, keypads, and LCD.

Keywords: *Microcontroller, Relay, DC Motor, Ultrasonic Sensor, Keypad, LCD*