

ABSTRACT

Cats are mammals that live on land, which are widely used as pets for humans. Keeping a cat means being ready to support its development by feeding, drinking and keeping it clean. However, this activity will be difficult to do when the cat owner is rarely at home so that the feeding for the cat is less controlled. With the advancement of Internet of Things technology, we can connect with anything, anytime and anywhere. Therefore, through this study, the author built a design for a cat feed control device remotely using the MCU 82666 ESP Node and Ultrasonic Sensor integrated with the Telegram application. This design was made with the HC-SR04 Ultrasonic sensor reading accuracy level of 100% at a height of 25 cm. This means that there are no read errors on the sensor. And get an average response delay accuracy of 9.5 and 12 with different providers. In addition, users can also feed automatically at the time that has been set in a timely manner. The purpose of this design is to make it easier for cat keepers to control their pet food remotely. Based on the results of this design, the author can conclude that feeding cats anytime and anywhere can be done with Internet of Things technology, not only that cat keepers can also control the quantity of cat feed via smartphones.

Keywords: *Internet of Things, NodeMCU, Microcontroller, Cat food, Ultrasonic Sensor HC-SR04*