

DESIGN AND CONSTRUCTION OF INTERNET OF THINGS BASED CATFISH SEED COUNTING DEVICE

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ABSTRACT

Fish farmers, especially catfish, often complain about inaccurate and imprecise fish seed calculations and take a lot of time, causing work to be slightly hampered. In addition, fish farmers must have accurate sales data according to the calculations at the time of purchase. In order to reduce inaccuracies and inaccuracies in calculating catfish seeds, a system is needed that makes it easier for catfish farmers to work faster and get accurate results. In this study, a prototype of an IoT-based catfish seed counting system was developed using the KY-008 Laser Transmitter sensor assisted by the Laser Receiver Module. Based on the results of the catfish seed calculation test that has been carried out, the success rate reached 100% from 15 trials. Based on the results of the Telegram Chat Bot test, 15 trials have been carried out, the same results were obtained according to the number of fish seeds launched on the catfish seed counter. However, this Chat Bot has a delay of 2 to 3 seconds to read data from the NodeMCU ESP8266 to the Telegram Chat Bot.

Keywords: *Catfish, Internet of Things, Laser Transmitter KY-008, NodeMCU ESP8266.*