ABSTRACT

IMPLEMENTASI SISTEM KONTROL ALAT PEMBERI PAKAN PADA KOLAM BUDIDAYA IKAN BERBASIS *INTERNET OF THINGS* (IOT)

By

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Catfish farming is an important economic activity to meet the demand for animal protein in Indonesia. Catfish production has increased annually, reaching 1,771,867 tons in 2017, reflecting the high demand for this commodity (Lutfiyanah & Djunaidah, 2020). However, catfish farmers, especially in Tanjung Harapan Village, face significant challenges, such as predator pests (birds, snakes, monitor lizards) and difficulties in managing optimal feeding schedules (Abdul Rahman).

The selection of this research topic is based on the need to find innovative solutions to the problems faced by catfish farmers. By utilizing Internet of Things (IoT) technology, this study proposes the implementation of an automatic feed control system designed to improve feed management efficiency and reduce losses due to predator attacks.

The results indicate that the use of IoT technology in catfish farming systems not only enhances production effectiveness but also significantly reduces losses caused by pests. The implementation of this technology is expected to have a significant positive impact on the welfare of catfish farmers in Tanjung Harapan Village, while also supporting the sustainability of the fisheries sector in Indonesia.

Keywords: Catfish farming, Internet of Things (IoT), feed control system, predator pests, Tanjung Harapan Village.