

# ARDUINO-BASED CHICKEN EGG SORTER DESIGN

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## **ABSTRACT**

*Chicken eggs are a source of protein intake for the people of Indonesia and have always been the main choice in meeting their daily food needs. The laying hens industry is required to maximize the management of laying hens in order to meet market needs. In meeting market needs, of course eggs must have good quality or are suitable for sale in the market. However, because to get chicken eggs with good quality is done manually, there are problems in the process of supplying egg needs in the market. Current technological developments are needed to make the process of sorting egg quality on chicken farms faster. Based on the background of the problem described above, this research will develop a prototype of an Arduino-based chicken egg sorter with the aim of having a high reading success rate. The tool to be developed is in the form of a conveyor with components to be used, namely Arduino Nano, LDR Sensor, LED, Servo Motor, DC Motor, LCD. In testing the good and bad egg sorter system, 30 eggs were used and produced a success rate of 97%.*

**Keywords:** *Sorter, Chicken Eggs, Success Rate, Quality.*