

Abstract

The process of grouping or sorting fruits which is currently carried out is still using manual methods by humans. Basically, humans have a characteristic that makes the grouping or sorting process very long. Based on these conditions, a sorting machine is needed that has the ability to detect and group fruits based on color automatically and faster. So that it is expected that the manufacture of this machine can help in productivity in the process of grouping or sorting fruits. The system is made in the form of a sorting machine that will classify the colors of each fruit using the TCS3200 sensor as a color detector and all these processes will be controlled using an Arduino with an ATmega328 microcontroller.

Keywords: Sort, Fruits, Color, TCS 3200, Microcontroler