BATIK MOTIF MACHINE BASED ATMEGA 8535

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ABSTRACT

Purpose of making the final project, entitled "Batik Motif-Based Machine ATmega8535 Taste" is to facilitate the process of stamping batik motifs that are not manual and the buds do not run automatically by the operator (human), the tool is controlled by a microcontroller. The method used in this final project is the design of the control machinery of taste Taste-Based Motif Batik ATmega8535. Hardware design consisted of: power supplies, device control and data processing system of minimum ATmega8535 microcontroller, LCD monitor, push button, dc motors, solenoid, sensor photo diode and a relay switch. Phototransistor sensors used to detect the object object. DC motors were used for driving the conveyor and the shift solenoid taste left from right or left to right. Solenoid was used for batik motif taste of ink the night to a white cloth (mori).

Based on test results and performance of Batik Motif Taste-Based Machine ATmega8535 had shown the work of the sensor system and the workings of time (delay) to show the work of machine tools Taste-Based Motif Batik ATmega8535 first step phototransistor sensor 1 works if the object is the object of fabric was placed the conveyor. Conveyor moved towards the phototransistor sensor 2 sensor was working run the command to move the buds (solenoid) from taking the night to a white cloth carried by conveyor to a shift in taste is driven by DC motors by using the slider rails of the former printer for the shift from the right side. Shift the rail system to work with the system of taste predetermined time delay.

Keywords: Machine taste, ATmega8535 microcontroller, LCD, DC Motor and Relay.