DESIGN OF PULP MOLD TRANSFER SYSTEM AT PAPER RECYCLING PLANT USING ATMEGA 8535 MICROCONTROLLER

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Abstract
Recycling process requires automatic system, and pulp mold transfer system contributes to faster paper recycling process. In this project pulp mold transfer system, forklift, was designed as automatic system. On-off control was utilized by using Light Dependent Resistor (LDR) sensor. ATMeGa 8535 microcontroller and 2x16 LCD were employed as controller and display, respectively. DC motor was used as system actuator. Experimental result present 38,03 ± 0,58 seconds of transfer time to move load of 160g forward. Average transfer time of 36,40 ± 0,75 is needed to move backward.

Keywords: On-Off Control, LDR Sensor, ATMeGa 8535 Microcontroller, Transfer Time, Pulp Mold