ABSTRACT

Removal of heavy equipment from one place to get to a destination that is expected to be a vital activity in some industries such as ports and heavy equipment company. In the process of moving the heavy equipment needed a tool that can ease the burden in order to move goods easily so that the work can be completed safely.

Tools such as overhead crane is a tool used to simplify the process of moving goods in the heavy equipment industry and ports. Goods are moved by overhead crane can be likened to a pendulum, this way we can get a mathematical model for the overhead crane that can then be calculated constants for PD and Fuzzy system.

The system is operated via a smartphone with Android OS. The results of the displacement of the position set by the user in units centimeter (cm). The results indicate an error response to hardware error \pm 13.93% and the average transfer time of 4.84 seconds.

keyword: Microcontroller, Overhead Crane, Wireless