ABSTRACT

Clock is the important thing for people to know the time. In industries time is the one

of parameter for employee attendance rule. The employee has a duty to work on time. In the

same way that apply to the factories which have many employee. The factories usually have

some gates and every gate there is has the clock is used to know the employee who present

and go home on time. However, the clocks in every gate that sometimes have no compatible

time. Therefore, the digital clock that contained GPS system is created, in order that the time

in this clock always display the true time. This design is also created for Final Project entitled

"Design and Realization of Digital Clock with GPS System Based on Microcontroller

ATMega 8535".

There are three Minimum System in Final Project. This Final Project benefitted the

Global Positioning System (GPS) which gives the information of time accurately base on the

located of the clock than it is sent to the "Mikrokontroler Master" and it will be processed

that data or information of time. The type of data has been taken from GPS is GPRMC,

where there is time of data in GPRMC type which it will be processed and changed in WIB

time, after that the "Mikrokontroler Master" send the data to "Mikrokontroler 1" and

"Mikrokontroler 1" will send too the data to "Mikrokontroler 2" with TLL communication.

Digital Clock with GPS system has been displayed at 3 LCD in 3 Minimum System of

Microcontroller ATMega 8535.

The result of this Final Project is the digital clock with GPS system which have input

voltage about 4,9-5,03 volt in every Minimum Systems, otherwise this digital clock have loss

signal 3-11 times in every minutes if this digital clock in a room and 3-4 times in every

minutes if the digital clock in outside.

Keywords: Microcontroller, digital clock, GPS.

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