**ABSTRACT**

Currently, congestion is an event that has been common in large cities, one factor that is in addition to increasing the number of vehicles and natural disasters factor is also a lack of media information quickly and accurately to the police traffic in the event this media congestion. Lack this information can lead to difficulties on the police to regulate the course of traffic, so congestion would be fatal, if not resolved soon.

In this Final project a information system will be created traffic congestion uses photodiode as a receiver and a laser as a transmitter, then the data displayed on the LCD and sending SMS. In this system, information data obtained from sensors then the data is sent to the microcontroller and it will be displayed on the LCD and sending SMS to provide information about the location of the bottlenecks that occur. When sensors detected the existence of two different bottlenecks, the information transmitted is only a starting point of two jams that shipped with 2 SMS.

The result of this final project is resulting traffic congestion information system with fast data delivery system. With the manufacture of designed system, can further reduce the congestion caused by late information if there is congestion.

*Keyword: Congestion, Sensor, Microcontroller, LCD, SMS*
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