ABSTRACT

The security system on the vehicle is currently very minimal even though the car is equipped with alarm feature it does not guarantee the vehicle is safe, and because it is a lot of cases of theft of vehicles that sometimes cannot be avoided. Although it has been reporting to the police but sometimes it is very difficult to find a car that has been stolen.

In this final project, a device with a GPS module for tracking is stored on every vehicle connected to a microcomputer, and a communication module that can transmit location data (latitude and longitude) via sms gateway to the server, and from the server side process location data (latitude and longitude), then the location data is sent to the mobile user / client, so the car can be monitored by the owner of the car and the car owner can know the position of the car in real time. In addition to having a tracking feature, this device has a vehicle monitoring feature so car owners can be monitored using mobile phones with GIS applications. If this device has been realized and has been applied to each car then this device has a traffic monitoring feature, where the data in the monitoring is data that is sure and in real time.

This final project produces an interactive GPS device that can transmit on-demand location data and realtime location data transmission in functionality testing and performance testing results that GPS devices are running as expected.

Keywords: Vehicle security system, Tracking with GPS, GPS with microcomputer