

ABSTRACT

The use of GPS (Global Positioning System) can help to reach certain places already widely used, especially for riders, because the level of accuracy and better route search.

In addition, there are more and more vehicle users on the highway. The road was getting crowded with passing vehicles. Associated with many drivers and the density of roads, the level of traffic accidents is also increasing. One of the reasons is finding a driver who activates the turn lights to the right, in fact the driver directs the vehicle to turn left. This can make the driver's ambiguity behind, such as the rear driver wanting to overtake the front rider, it is very dangerous. Seeing these conditions it would be nice if a navigation system such as GPS can control the use of indicator light based on the bends shown on the GPS.

In this final project, the constituents focus on doing a research that is designing a system that can control the turn signal using a navigation system. The system designed can control which turn signal is active based on the bend direction on the route. This system can also control turn signal will be active before the bend in front and will be off when the user has passed the bend with a 100% success presentation.

Keyword: *GPS., Navigation System.*