

ABSTRACT

transportation such as motorbikes is very important to support human life, because it can make it easier for humans when they want to travel to a place, as time goes by, there are also types of motorbikes at affordable prices, so many people can afford to buy private motorbikes, more and more people are buying motorbikes. buying a private vehicle, the more cases of motorcycle accidents that occur in Indonesia, cases of accidents caused by many people who do not understand the rules of traffic. In some cases of accidents, many accident victims die because they are too late to be treated because the accident is sometimes not known by the people around. Therefore, the author makes a tool to monitor the slope of a motorcycle using the GYRO MPU6050 sensor to find out if the motorcycle is in a dangerous slope or is at an angle of more than 60°-60°, if the slope of the bicycle exceeds the safe limit, the system will send a message using SIM800C along with the last coordinates obtained by the Neo-6m . GPS sensor

Keywords : motorcycle tilt monitoring, microcontroller, Arduino uno R0033, gyro mpu 60506 dof sensor, global positioning system.