ABSTRACT

Traffic accidents are something that has often happened in Indonesia, this has resulted in many injuries and even death. based on data from the Indonesian police one of the causes of traffic accidents in Indonesia is drowsiness. This is certainly very unfortunate considering that this incident can actually be avoided by maintaining health or checking the health of the driver before driving. based on public opinion data when checking health must first pay and waste time sources obtained from several communities that have been interviewed.

from this the authors took the initiative to create a solution that is by making a drowsy detector helmet with arduino nano as a microcontroller that serves to detect the drowsiness of the rider besides being able to check the location of helmets and motorist's pulse data sent via sms this tool is also equipped with an SOS security system where if something happens to the driver can send emergency information data to the smartphone via sms.

Keywords: Helmet, Pulse Rate, SMS (Short Message Service), Arduino Nano