

## Abstract

More than 300,000 young people in the world die each year in alcohol related deaths. This problem is particularly evident in developing countries. No less than 320,000 people between the ages of 15-29 years die each year for various alcohol-related causes. This amounts to nine percent of all deaths in that age group. According to WHO Global Health and Health Status Report 2011. (Shelley Gollust, Rauf Prasodjo, Made Yoni, 2011)

In this Final Project has been made an IoT-based device that is an alcohol level detector. This device is designed to reduce the high accident rate every year which is caused by driving under the influence of alcohol.

The workings of this tool is to breathe into the sensor then if the driver is positive to drink alcohol by exceeding the limit of alcohol levels in the set then this sensor tool will automatically send the GPS signal to determine the driver's coordinate point is where and also send a message (SMS) to the nearest family, With this tool we hope to reduce the number of accidents each year which is caused by drinking alcohol.

**Keywords:** *Arduino Uno R3, Sensor kadar alkohol, Sensor MQ-3, Modul GPS, minuman, Modul GSM.*