**"ADVANCE INDICATOR FOR VEHICLES TO AVOID ROAD ACCIDENTS"**

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**Introduction:**

Technological change (TC) or technological development is the overall process of invention, innovation and diffusion of technology or processes. A technological innovation is a new or improved product or process whose technological characteristics are significantly different from before. Implemented technological product innovations are new products (product innovations) or processes in application (process innovations) that have been brought to market.

Yes, here as my project I have innovated an idea **"AUTOMATIC INDICATOR"**.

**Keywords:** Automatic turn off, Bike indicator, Navigation, Emergency.

**About my project:**

In the present modern world, most of the people are using the roadways for transportation purposes. The utilization of roadways increases by one side, on the other side the road accidents are also escalating. The current assessment shows that the reasons for the road accidents are not obeying the traffic rules, inappropriate usage of indicators while turning right or left while driving the vehicles and so on. In peak hours and in traffic times people are speeding up with their vehicle and forgot to turn off their indicator. This leads to an accident while sudden turning and braking without a proper indication. In order to overcome these types of difficulties, an automatic turning off bike indicators is proposed. Let's discuss this in detail with 3 cases.

**Case: 1**

This case is applicable for the two wheelers. Till today while driving, people are turning on/off the indicators manually. The bike riders forgot to use the indicators in the right time. This resulted in many accidents. As per my project, let's fix a "**BIKE INDICATOR**" which works **AUTOMATICALLY**. This indicator will sense the angle of the handlebar in bike and navigates automatically by doing the work of indication.

Manually rider have to turn on the indicator but the indicator will turn off automatically. This sensor will sense the angle and turns off automatically once the turning angle retains to normal angle. It will be turning off automatically after crossing (approx."10 meters) of indication. This will result with a safety ride.

**Case: 2**

While starting ride for an urgent work most of the people fails to check whether indicator is in on or off. In some cases, indicator of the bike which is in rest may turn on. Person who is going to start the same bike again may fail to check the indicator. As a solution our **"AUTOMATIC INDICATOR"** will turn off the indicator automatically once the bike gets started. This is will sure help the person to avoid terrific accidents. Emergency works could be easily done here after without the pressure of checking indicators.

**Case: 3**

This is applicable for all vehicles. At highways most of vehicles like lorry, trucks even cars fail to turn off the indicators. Often those indicators are turned ' on ' especially travelling on highway roads. This may result in heavy accidents. As per our project, in this case when a vehicle's steering or handle bar is in same position continuously moving for (approx. 500 meters) this indicator will be turned off automatically. Our **"AUTOMATIC INDICATOR"** will sense the travelling distance and position of the steering or handle bar.

**The limitations of the manual mode are:**

• The bike riders are forgot to turn off the indicator in the right time.

• Confusing the other road users by not turning on the bike indicators in the right time and vice versa.

• Number of accidents are increased.