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Abstract:

Our Invention SMART HILL HORN is a any driving scenario, lane lines are an essential component of indicating traffic flow and where a vehicle should drive. We have a curved lane detection system that utilizes a program written in Python using the OpenCV library on a Nvidia Jetson TX2 module. The camera mounted at the front of provide the drivers point of view of the road to the program which in turn will analyze the video in real-time to detect the curvature of the road. The curvature value v a machine learning – ML model. This ML model is responsible for providing the decision to sound the horn. There will be no manual interaction required from the dri can concentrate on other important aspects of driving.

Complete Specification

Our Invention is related to a SMART HILL HORN
BACKGROUND OF THE INVENTION
[502] Bicycle horns, in their current form, don't appear to adequately warn drivers of
vehicles of the presence of bicycles in their nearby vicinity.
[504] Similarly, there does not appear to be an adequate system or method of warning
drivers of vehicles of the presence of pedestrians in their nearby vicinity.
[506] The lack of adequate warning systems has resulted in accidents between vehicles and
bicyclists, along with accidents between vehicles and pedestrians.
[508] In order to reduce the aforementioned types of accidents, there is a need for a system
that adequately warns drivers of vehicles (or, at least, warns drivers better than some prior
systems) of the presence of bicyclists or pedestrians.
[510] The present invention is designed to address at least one of the aforementioned
problems and/or meet at least one of the aforementioned needs.
[512] A smart horn is disclosed. In one embodiment, the smart horn includes a horn for
producing sound, a light source for producing light and a housing in which the horn and

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