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**Addis Ababa University**

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Project Proposal

Self Driving Car plus Driver Assistance System

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Abstract

Self Driving Car plus Driver Assistance System is a system that can be installed on different vehicles to assist the driver of the vehicle to drive well and minimize the risk of road traffic accidents. This risk of road traffic accident can be minimized by making the vehicles self aware and interacting with the environment in accordance.

A number of factors contribute to the risk of collision, including vehicle design, speed of operation, road design, road environment, and driver skill, impairment due to alcohol or drugs, and behavior, notably speeding and racing. Even though the factors are very diversified and difficult to tackle each and every factors, but only by adding abilities to the vehicles to be self aware and interact accordingly, the risk of road traffic accident can be minimized significantly.

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**Introduction and Background**