Smart Rc Car

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Abstract

With increase in movement of goods and raw material. Companies are searching for cheap and cost effective ways to transport goods form one place to other. The already existing software relies on rigid programming which is incapable to handle the continuously changing environment in   With the current rapid economic growth, vehicle ownership is fast increasing, accompanied by more than one million traffic accidents per year worldwide. According to statistics, about 89.8% of accidents are caused by driver's wrong decision-making. Self-driving vehicles aim to eliminate human driver error leading to fewer injuries and fatalities. The project aims to build a monocular vision autonomous car prototype using Raspberry Pi as a processing chip. An HD camera along with an Distance sensor is used to provide necessary data from the real world to the car. The car is capable of reaching the given destination safely and intelligently thus avoiding the risk of human errors. Concepts like Machine Learning, Artificial Intelligence and Image Processing are used to generate a prospective of surrounding in model.