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(57) Abstract :

The invention pertains to a smart, driverless three-wheeled electric vehicle designed to enhance transportation efficiency and safety through automation and wireless control. The vehicle features a front stabilizing wheel and two rear wheels powered by geared DC motors. The rear wheels handle both propulsion and steering by varying their rotational speeds, controlled via a microcontroller system linked to a lithium-ion battery and an L298N motor driver. Wireless control is facilitated through a Bluetooth module, allowing users to operate the vehicle remotely via a mobile application. This design reduces human effort, minimizes accident risks, and provides versatile applications for surveillance, household tasks, and industrial use, combining mechanical technology with advanced automation for practical, sustainable mobility solutions.

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