Wireless Vocal Command Driven Robotic Car Using Arduino

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Abstract*: Wireless Voice Control is an idea. A robotic car is an electronic device utilized for security. RF modules are used by many of the independently controlled robots. However, for robotic control, this idea makes use of an Android smartphone. There are numerous more control instructions available than RF modules. For this, the Android user must install an application on his or her device. Users must then enable Bluetooth on their handheld gadgets. The user can issue commands such as proceed forward, get back, turn left, turn right, stop, break, show me your dance, and furthermore. In parallel, while the Robotic Car is in mobility, the user can view the live VIDEO broadcast from the camera installed on the Robotic Car. To properly link and receive live feeds, the user must configure their machine with the camera module by providing a User Name and Password. To ensure the SECURITY of the data remains confidential, successful authentication is required. After authentication and configuration, the user has several options for camera settings. The user can click LIVE snapshots at the same pace. Explore the live video on his or her own device. This process is carried out through an electronic device known for its ESP CAM32.*

Keywords: Bluetooth, Voice, Speech to Text, Robot, Navigation, Servo Motors, ESP 32 CAM, Etc.

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