

Automatic Wireless Tank System for Defense

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Abstract : A tank is an armored fighting vehicle designed for front-line combat, with heavy firepower, strong armor, and tracks providing good battlefield maneuverability. As a result of advancements, tanks underwent tremendous changes in capability in the years since their first appearance.

" Automatic Wireless Tank System " is capable to detect any target by using wireless camera in the range of border, target its position and destroy the object through firing control module. The system includes high resolution cameras and wireless communication. In this system the soldiers in the control unit room will be continuously monitoring the range of border with the help of camera and if any target is detected then the soldier in the control unit room will send command to firing control module which will then activate the gun to destroy the target. This system can be widely useful in battle fields. The communication between control room and firing control module is through wireless technique. A metal detector is used to detect whether the bomb is implanted in the ground on detecting metal it will set the buzzer.

Basically this system is an alternative of soldier. The camera system provides the 'eyes' for the tank, the gun system aims and 'shoots' the target, and wireless communication provides secure and reliable transmission of controls.

IndexTerms - Atmega16, LCD, Camera, RF Transmitter and Receiver.

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