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A Project Report on
"Robotic Surveillance"

Submitted in partial fulfilment of the requirements for the award of the degree of
Bachelor of Engineering
In
Telecommunication Engineering

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ABSTRACT

Human life is very precious. Micro controller based robotic vehicle system is a sincere effort made by us to save the precious human life in some dangerous fields such as military surveillance, bomb disposal, hostage situations etc.

During war or when military people enter uncharted territory (hostage situations) they will sometimes be victims of surprise enemy attack. This robotic vehicle is a new method to trace out the enemies and use that information to make a tactical move. It is having all the necessary components to trace enemies like camera and sensor. These components help to find the position of the enemies, and save precious life that could have been lost.

Robotic Surveillance project is to implement a system that can be used for military real time applications. The robot wheels (equipped with high power motors and battery) are designed in such a way that it can move in all terrain. The movement of the robot can be controlled remotely by any concerned person. The whole situation can be visualized through the camera mounted on the robot and uses ZigBee for communication between the robot and control station or base station. The distance of the enemy can be determined by a ultrasonic sensor, and is transmitted to the base station via Zigbee module .