
WAR HEAD ROBOT & FIRE FIGHTING ROBOT

ABSTRACT

A robot is a mechanical or virtual artificial agent. In practice, it is usually an electro-mechanical system which, by its appearance or movements, conveys a sense that it has intent or agency of its own. The word robot can refer to both physical robots and virtual software agents, but the latter are usually referred to as Robots. There is no consensus on which machines qualify as robots, but there is general agreement among experts and the public that robots tend to do some or all of the following: move around, operate a mechanical arm, sense and manipulate their environment, and exhibit intelligent behavior, especially behavior which mimics humans or animals.

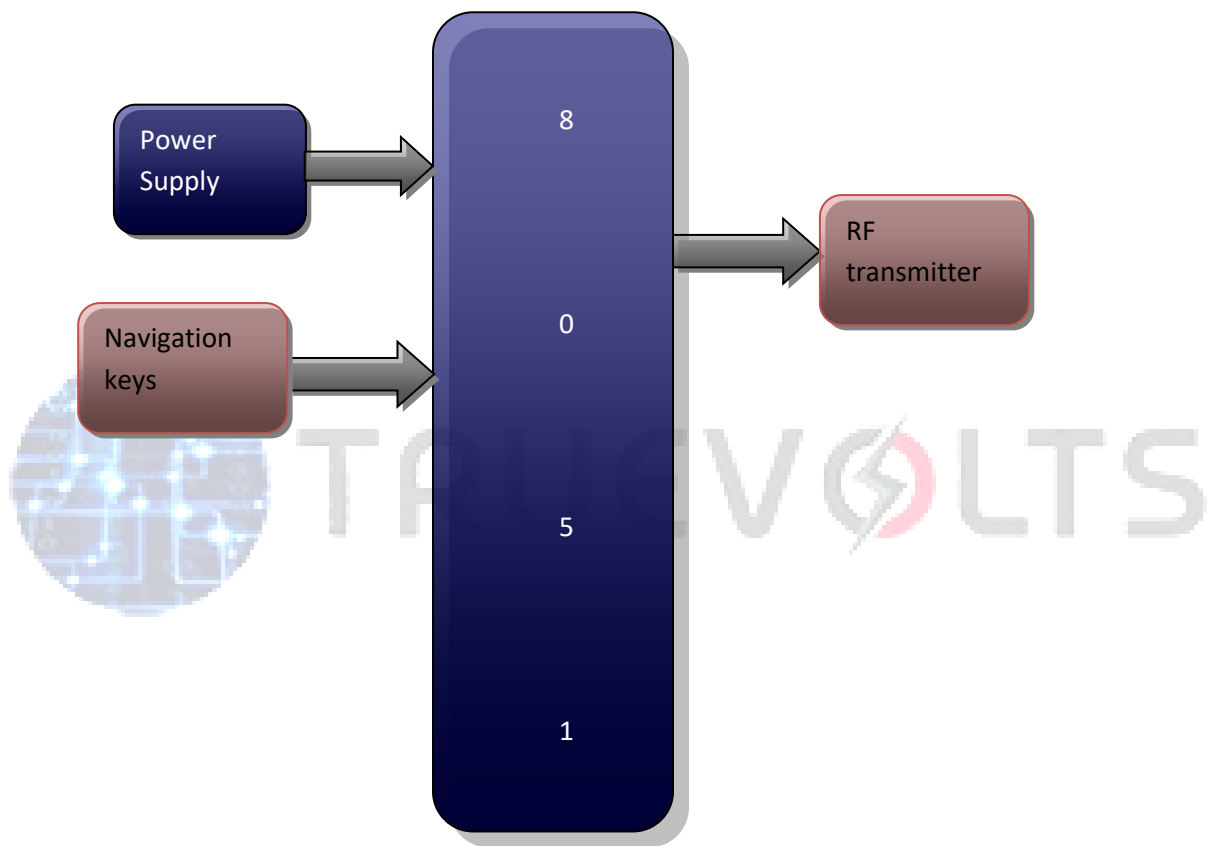
This project is built on 8051 micro controller with a remote controlled robotic vehicle. The project is bifurcated into two segments a transmitter part and a receiver part. The transmitter part consists of keys to navigate the vehicle to forward, backward, left, right and stop. The receiver module consists of robotic vehicle, with wheels, front camera, and a laser gun which mimics the warhead gun. The wireless camera continuously transmits the video to a remote monitoring system. We can target the objects using laser gun which can be operated remotely. L293D is used to operate the motors of the robot and a relay is used to turn ON/OFF the laser light.

This project uses regulated 5V, 500mA power supply. 7805 three terminal voltage regulator is used for voltage regulation. Full wave bridge rectifier is used to rectify the ac output of secondary of 230/12V step down transformer.

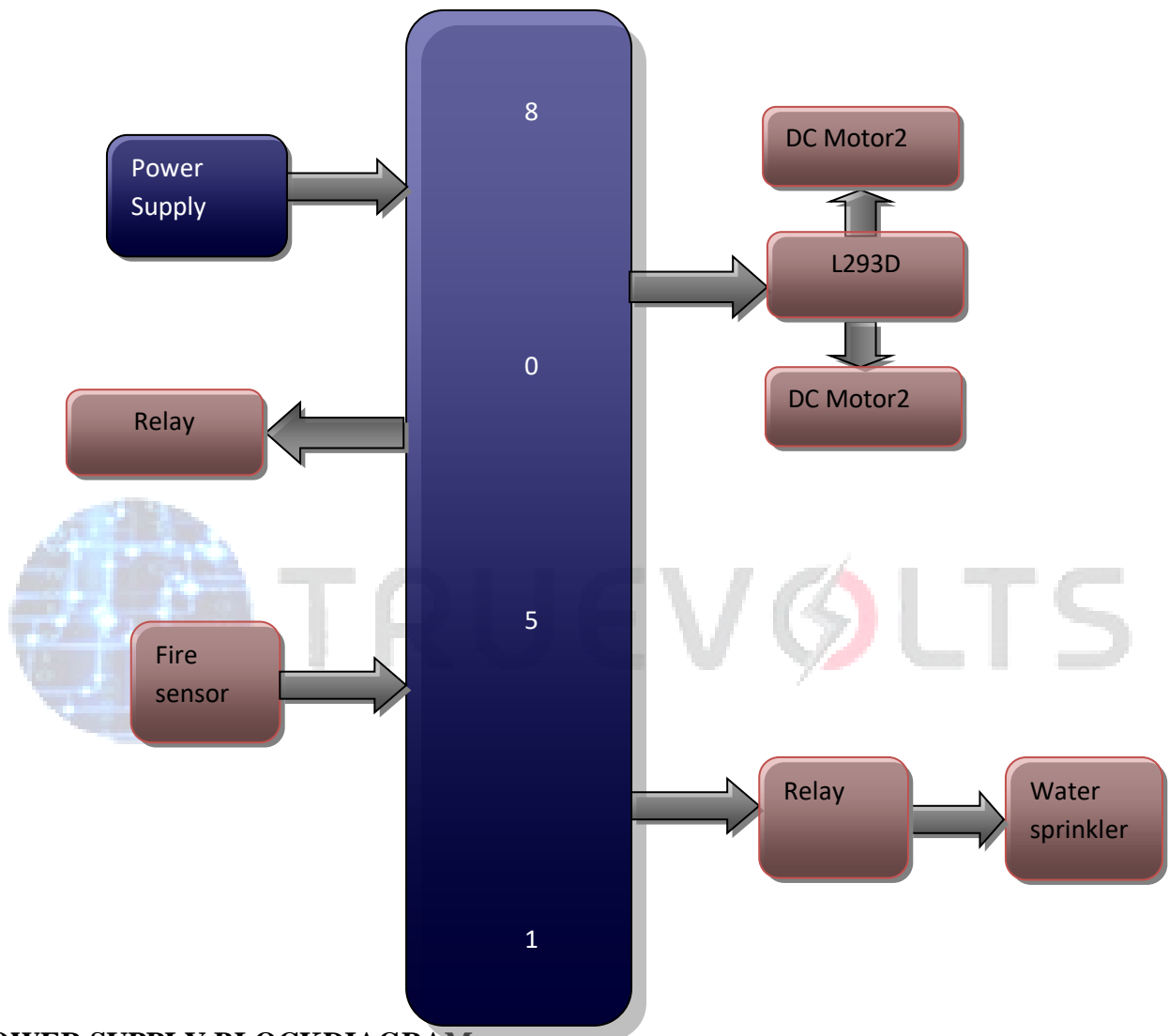
APPLICATIONS:

- Robotics
- Defense applications

BLOCK DIAGRAM:



BLOCK DIAGRAM:



POWER SUPPLY BLOCKDIAGRAM:

