

Solar Powerd Based Automatic Pick & Place Packaging System

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Abstract: *In this proposed system, we have designed a Smart Solar based Multipurpose Military Robot. This type of robots can be used in war fields, where the risk of sending human is much high. Using this system Operator can view the Remote location of war field using Wireless camera. This system is also equipped with a Ultrasonic sensor and an arm with gripper. This entire system is Power using Solar Panel and movement of this robot is controlled using IOT application. Concept of object pick-and-place and Line follower robot which will be functioned following a particular line may help an industry to attenuate the labour cost or may be alternatives of the labours. Nowadays the industries are following the concept of automation and for this purpose robots are the best alternatives. Single type of robot is most commonly used in industry is a robotic manipulator or simply a mechanical arm. It is an open or closed kinematic mechanism chain of rigid links interconnected by movables joints. We have pile up a mechanical arm with a Bluetooth operated robot which will be able to pick an object from a certain place then carry it to the defined place by following a predefined line. A robotic system that is capable of both picking up and releasing microobjects with high accuracy, high precision, reliability and speed.*

Keywords: Pick & Place Mechanism, Microcontroller, Automation, Bluetooth Operated Robot, Solar Power, etc.

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