



NARNARAYAN SHASTRI INSTITUTE OF TECHNOLOGY

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Project Title:-Pick and place robot using GUI

Abstract:-

The pick and place robot is one of the technologies in manufacturing and design to perform pick and place function. The system is eliminating human error and to get more precise work robotics application are now widely used in medical transport under water entertainment and military sector. The popular concept of robot is of a machine that looks and works like human beings. High speed pick and place robot take product from one location to another with pinpoint accuracy. Human pick and place application require repetitive motion over a long duration resulting in possible ergonomic issues. Pick and place robot is increase efficiency as well as decreased production costs ergonomic issue. Our project on graphical user interface with colour detecting. The graphical user interface (GUI) software provides control capability on the mobile developed using visual basic. The color detecting is important for to detect the color which is ordered by the user.

Software used:- Arduino , Proteus , MTI app inventor

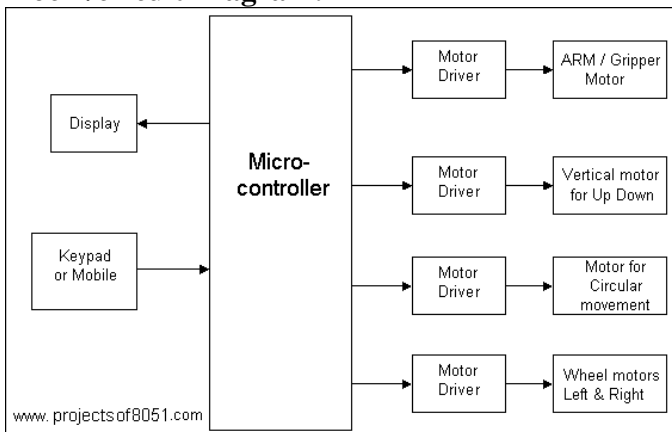
Project Application:-

- (a) Arc Welding
- (b) Assembly
- (c) Cutting
- (d) Dispensing
- (e) Finishing
- (f) Machine Load / Unload
- (g) Machine Tending
- (h) Material Handling
- (i) Polishing
- (j) Sealing

Approx. Project Cost:-6000

Project Photo:-

Block /circuit Diagram:-



Major Hardware components used:-

AVR , L293D board , ATMEGA328 , Bluetooth hc_05 , Dc motor , Arm and gripper , 12V battery , MTI android app

