Arduino Based Agriculture robot Using Bluetooth

ABSTRACT

In this project, we are developing an agricultural-based robot. This robot should be helpful for farmer people. In this robot, automatic seed placing and pumping the water to seed and we are using pick and place set up to remove the dry plant and sowing the seeds in that same place. We are using the sensor to find the conditions of agricultural land. If any obstacle is dedicated means the robot will stop that place and soil moisture sensor is used to find the dry or wet condition in the plant if the plant is dry means the pump motor should be on and water will supply to the plant. This function is done by Bluetooth.

Working

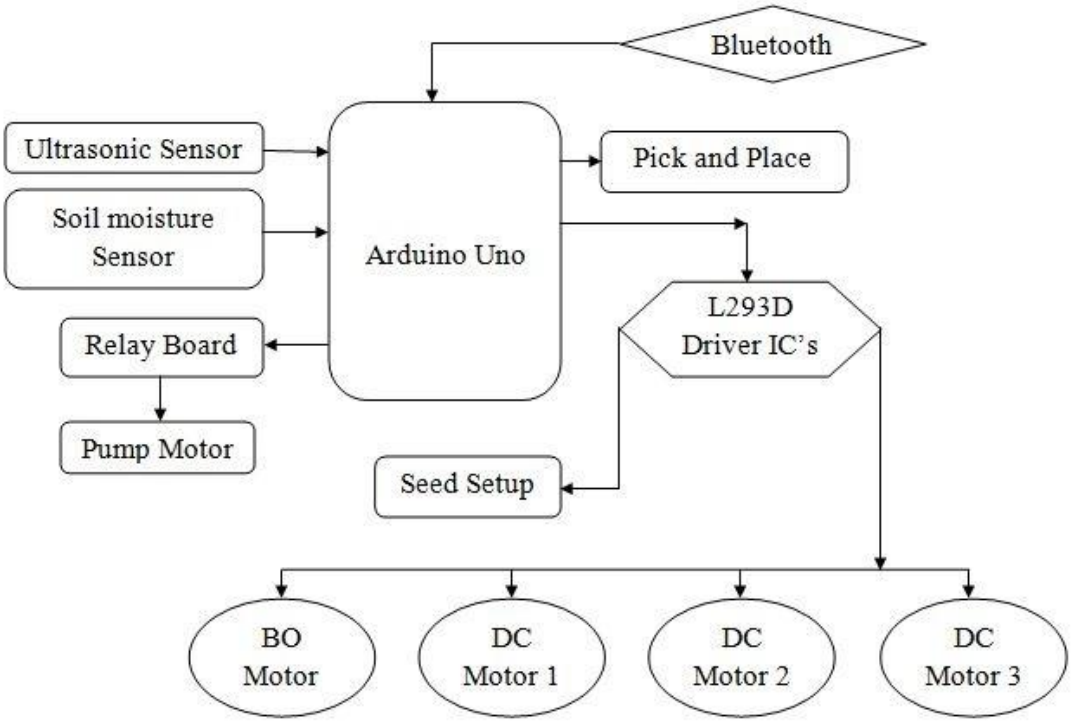
This system will be using micro controller and different types of temperature and climatic condition testing sensor
System will have seed sower mechanism, pesticides spraying nozzle ,and other farming utilities customisable
System can also be be connected to automatic irrigation sub system and different farming utility systems
Pick place arm and scarecrow buzzer may be also included according to user requirement.

Components

- Arduino Uno
- L293D Driver IC

- Bluetooth
- DC Motor
- Soil Moisture Sensor
- Ultrasonic Sensor
- Pick And Place Setup

Block Diagram



Circuit Diagram

Circuit diagram changes with final model and sensors and modules used