AUTOMATIC DRIP IRRIGATION SYSTEM

Prepared by: Ng Tee Hu

ABSTRACT

The title of this project is 'Automatic Drip Irrigation System'. It is an automatic plant watering system which is specially designed and it is suitable to use in a farm or just at the backyard behind everyone's house. The cost of installation is low and it's also easy to use.

This automatic plant watering system is built by using the combination of electronics art and mechanical part. The electronics part involved the design of circuit for the soil moisture sensor and the solenoid valve. The mechanical part involves the design of the water piping system.

Probes of the soil moisture are placed near the root of the plants and are used to detect the moisture level of the soil. The signal receive by the soil moisture sensor from the probes will be displayed on the seven segment LED display to show the user about the moisture level of the soil. When the moisture level of the soil drop o a certain level, the sensor will send a signal to the system and the system will send water to the plants automatically by just activating the solenoid valve.