DECLARATION

I hereby declare that the project entitled **"AUTOMATED PLANT WATERING"** is a genuine project. This work has been submitted to the **ADITYA ENGINEERING COLLEGE,** Surampalem affiliated to **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA** in partial fulfillment of the degree **B.Tech.** We further declare that this project work has not been submitted in full or part of the award of any degree of this or any other educational institutions.

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ABSTRACT

Now a days every process is getting automated. This automation of the processes is possible with the help of embedded system. The process of connecting various devices and hardware together to make them act as a single system is embedded systems. The main advantage of the usage of embedded systems is the labor of the human in performing tasks get reduced.

There are various applications of embedded system in various fields like security, agriculture, home needs.

Watering is the most important and most labor intensive task in daily greenhouse operation. To ease this process and to reduce the burden of a gardener, this process is automated. There are two important aspects to be known to water a plant. They are, when and how much water to be given to a plant. For this, we use a soil moisture sensor to detect the moisture in the plant. And to carry out the operations and the conditions upon which the system acts will be controlled by a hardware component AURDINO. The amount of water to be given to the plant is controlled by the mobile through a message using GSM module. So this automation lessens the efforts of human to water a plant. It helps the plant to grow healthy by avoiding non-watering and over-watering

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