Smart Garden

Andrade Sierra, Frida

The care of plants and natural resources have became very important in recent years. The daily Routine has made more difficult to interact between nature and humans, especially in large cities. Today, most people have acces to technology toold that facilitate many of the tasks that they do every day. The smartphones are one of the most important tools, they are also the bridge of communication not only among people, but also with machines. Because of this, it is believed that it is impossible to create a system that allows that the human to take care of the plants (Smart Gaerden) and make a better use of natural resources without neglecting their activities. This might promote the conservation of the environment and green areas, wich have been lost in the big cities. This project aims to demostrate that the use of the technology can help the care of plants through the development of a system remotely manipulated by satellite. Some of this characteristics are the control of irrigation and shade for the plant in addition to the acquisition of temperature and humidity, thanks to microcontrollers, sensors, motors and communication module. The smart garden is expected to improve the care of plants and it can be used in homes, schools, hospitals, nurseries, greenhouses, and cities where conditions or circumstances do not allow the development or care of green areas. The project seeks to eliminate or reduce these constrains with the support of technology.

Awards Won: