

# Smart Green Organic Farm

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I worked on building the project based on my primary goal, which is to work on solving greater problems facing human life and facing the earth in general, such as the problems that the agricultural environment faces in our world and harms our properties, farms, forests and animal life. Certainly, you are wondering what are the problems that prompted me to build this project, the problems are the fires that cause great damage, such as the fires that occurred in California and Australia, and the frost problem that we suffer from globally and that cause agricultural crops to be destroyed, so the prices of vegetables and fruits rise, which is a really annoying thing, and the problem of water scarcity and bad methods used in irrigation, which causes a great waste of water and the problem of desertification that arises due to drought, poor soil nutrition and salinization. This project has attempted to introduce an efficient smart farm system . It has incorporated automation into various aspects of the farm , as well as reduce the manual labor . It includes an automated light , temperature, humidity, moisture and sprinkler system and a green electricity (solar energy and wind energy ) . Smoke detectors are included to prevent fire hazards which if not detected on time could lead to loss of livestock and valuable resources . The system is energy efficient as it helps conserving resources like energy , water and it reduces manual labor to a great extent . The farm owner has easy access to the system and can control it remotely through his mobile phone through a mobile application . This will result in convenience , energy efficiency , quality and safety benefits.