

## **Problem**

Nowadays, many people have busy lifestyles due to their heavy workloads and the competitive environment in the world. So, they don't have enough time to spend on household chores. For domestic purposes, people usually have to dry materials such as grains, spices, clothes and so on. An automatic system that can dry materials using sunlight more effectively and efficiently would be a great solution to help people manage their busy schedules and save time. Due to the changes in intensity and direction of sunlight, without such a system in place, people would have to spend extra time moving them manually here and there. It also takes more time to get dried. Therefore, we aim to find an elegant solution by designing an automatic system that follows the sun to dry materials more efficiently.

## **Solution**

By following the sun and adjusting its position accordingly, the automatic system could ensure that the items being dried receive a consistent and direct source of heat, which could help speed up the drying process and improve the overall quality of the results.

If possible, we expect to develop this system further, which would be sensitive to changes in humidity and rain (climatic changes).

## **Objectives**

- To reduce the time spent on drying the materials that are used for our domestic purposes.
- To supply a viable product to the market at a low cost that is affordable for the majority of society.
- To avoid the damages that can occur during the drying process.
- To prevent the materials from being damaged by the birds or other animals.

## **Working Principle**

An automatic driving system is expected to be built using some set of sensors and several other components like operational amplifiers, transistors etc. When there is no light in a particular area, the sensors would detect it and trigger the system to look for sunlight.