

## Abstract

I started this project from the interest i have in eco-farming and IoT. During the development i plan on improving my knowledge about electronics and programming.

Since the price of electronics is getting lower, i belive that an automated green house could be a great solution to small size cultures of enviornment dependent plants.

This project is a prototype of a green house running in 3 modes :

- autonomous
- web client comandable
- local comandable

I am trying to get a cheap and efficient solution to the need of farming enviornmental dependend plants in any climate zones.

Some plants require some specific enviornment conditions to grow , the purpose of this project is to create the necessary conditions for those plans to grow in a controlled greenhouse by monitoring and modifying enviornmental conditions like : light, humidity , temperature and air.

Using a sistem of sensors and development boards i plan on keeping on optimum values and adjusting the close enviornment to fit the conditions of the plant to grow.

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