

DESIGN AND ANALYSIS OF MULTITASKING AGRICULTURAL DRONE

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Abstract— Quadcopters are unmanned Ariel Vehicle (UAV), generally small helicopter that is lifted and propelled by four rotors. Initially they were used as toys, later they gained importance and recent research on multi-copters have received growing attention for military, agriculture, photography, surveillance, news, sports, search/rescue missions and much more. The widespread use of unmanned vehicles and its growing applications in various domains can be attributed to their ability to operate in inaccessible areas, thus decreasing the human loss in major accidents, and making access easy to dangerous conditions. We have proposed an idea about how quadcopter can be used for the agricultural applications. The target of this paper is to explain briefly to prepare a quadcopter so that it could be used in agricultural and can help our society, we have also explained working and manufacturing of quadcopters in detail so that it can help in agricultural domain to increase the efficiency and productivity.

Keywords—Unmanned Ariel Vehicle (UAV), Vertical Take-off and Landing (VTOL), remotely piloted vehicles (RPV), Clockwise (CW), Counter-clockwise (CCW).

1. INTRODUCTION

According to a survey conducted by WHO (world health organization) it is estimated that every year about 3 million workers are affected by poisoning from pesticides of which 18000 die. This project aims to overcome the ill-effect of the pesticides on human beings and also use to spray pesticides over large area in short intervals of time compare to conventional spraying by using automatic fertilizer sprayer. This device is basically combination of a spraying mechanisms on a quad copter frame. This model is used to spray the pesticides content to the areas that cannot easily accessible by humans. The universal sprayer system uses to spray liquid as well as solid contents which are done by the universal nozzle.

1.1 Types Of Drones

Depending on the Type of Aerial Platform

The classification of drones based on how they manage to stay up in the air:

Multi-Rotor:

These drones have multiple motors on their bodies. They are popular for aerial photography and surveillance because they can stay in the air for long periods of time in one place.



Fig. 1 Multi Rotor Drone

Fixed Wing:

Other major drone designs consist of fixed-wing models where the drone mimics the engineering style of an airplane. These drones can't stay in one place, but they will glide along a designated path, as long as power allows.



Fig. 2 Fixed Wing Drone

Single Rotor:

A single rotor is used to fly the drone, and another small rotor near the tail controls the direction. These drones, also known as RC helicopters, are more efficient than multirotor drones. They can fly higher, stay in one position without rotating, and often use gas instead of electricity to power their bodies.

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