ABSTRACT

The development of UAV technology (Unmanned Aerial Vehicle) provides

many benefits in its use. One of the uses of UAVs is to monitor large areas. The fun-

ction of the UAV as a monitoring tool can be used in the agricultural sector. A farm

that has a large area of land will be brutal to monitor the grounds as a whole. There-

fore, this task can be done more easily by utilizing a UAV. The UAV used must have

the ability to fly in a stable state and the ability to fly following a predetermined

trajectory.

, Therefore, in this final project, we will design and realize a UAV with a qua-

dcopter type that can fly automatically according to the objectives set in the Mission

Planner application. The additional capabilities of the quadcopter which can per-

form take-off and land automatically will also be more helpful in carrying out the

work of monitoring their land. Therefore, this final project will also design a qua-

dcopter that can take off and land automatically.

Keywords: UAV, Quadcopter, Mission Planner, Take off, Landing

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