

ABSTRACT

Unmanned Aerial Vehicle (UAV) is a flying machine that can be controlled with a remote control or a plane without any crew that controls therein. UAV aircraft has been studied for the redesign is done in order to conduct monitoring activities at PT. Perkebunan Nusantara VIII Malabar.

UAV aircraft used to perform monitoring activities is one of the best types of UAV developed by the Laboratory APTRG (Aeromodelling And Payload Telemetry Research Group) Telkom University. The aircraft will be redesigned with a knock down system to make it easier to bring the plane to land for plantations. The next problem is how to store, carry, and protect the UAV aircraft that has been overhauled.

This research will be designed a bag that aims to facilitate users carry, store, and protect the aircraft by using a rational method of Nigel Cross. The design of the bag in a rational method of nigel cross carried by six stages, clarifying objectives, establishing functions, settings requirements, Determining characteristics, generating alternatives, and evaluating alternatives. Results from this study is the result of design bags that can be implemented on a UAV aircraft that has been overhauled.

Key word : *Product design, Bags UAV Air craft, Rational Method*