

ABSTRACT

Unmanned aerial vehicle (UAV) is a technology without the crew that can be controlled from a distance by a pilot or able to control himself. The UAV divided into two types, fixed wing (resembling an airplane commercial) and multicopter (resembling helicopter). Type of UAV fixed wing need an anvil big enough that can take off, but sometimes it is hardly find a big place enough for flew a UAV fixed wing. Hence required a UAV fixed wing that capable of take off vertically that does not require an anvil big enough. On this final project, the UAV designed a kind of fixed wing capable of take off vertically. By the use of programming on arduino uno and then use it along two pieces of brushless motorcycle maker took a commanding that which is laid on the tip of the wings by the position of looks up so be able to produce forces of lift upward so as capable of being to lift up UAV footage and was preparing to take off vertically. From the results of this study which was conducted it can be concluded that UAV footage a kind of fixed wing capable of being to take off vertically and was lifting on the input throttle 1300 (30 % throttle). The state of UAV footage during take off unstable and maximum height of who for has been reached in around 84 cm with input throttle 1500 (50 % throttle). The speed of a swivel brushless motorcycle took a commanding will rise up along with a rise in the value of the throttle of input to student performance, this means that the difference of height of generated out at continue to increase in line at the rising the value of throttle.

Keywords: UAV, throttle, the difference of height.