DESIGN AND DEVELOPMENT HOMING SYSTEM ON PAYLOAD ROCKET VEDA TE 14

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ABSTRACT

Nowdays, the aerospace technology development is very fast, especially rocket technology. Inside out of rocket there is a countent that called payload. As is this payload a rocket expected to be able to provide an information that can provide some benefit for its users. It is morebetter that a rocket containing a payload when it has been launched can be in control of payload to be able to return to ground station or at the desired point to save the components and information that has been obtained.

In this research its designed a control system on/off, with the result that this device can be controlled remotely, with the control center from ground segment. This system consists of a PC or laptop for the commond botton converted become a gesture signal the sent through the YS 1020U anthenna.

The system consists of a motor brushless that moves propeller which can than move the rocket payload. In the process the payload can moving forward and spinning right and left. From this research the telecommand data which sent from pc keyboard on ground station is sent and received well by payload with the result homing process can be done.

Keywords: *Payload Rocket, Payload Control, Arduino Uno, Brushless, Homing.*