

ABSTRACT

Rocket Contest Indonesia (KORINDO) is a form of competition which is held by the Institute of Space and rocketry State (LAPAN) to do significant development to space technology in Indonesia. In this KORINDO activities involve the participation of students from various universities in Indonesia, including students helping IT Telkom Indonesia rocketry technology development.

Application of technology in Korindo concerning 2 pieces of important things is, the Air Segment and Ground Segment. Air Segment of payload in the form of hardware that functions retrieve and send various kinds of information on Air (air) at a certain height, eg: temperature, humidity, accelerometer, etc.. Ground Segment in the form of software that acts to receive data sent by the Air segment which is then processed into a user friendly information database and graph form so that information transmitted more easily readable. In addition, Ground Segment is also responsible as a center of motion control on the Air segment.

In this final project has created a design of Ground Segment by utilizing the RF antenna as data communication with the air segment, Microsoft Visual Basic 6.0 for data processing and motion control segment of Air, and Microsoft Access to store all betuk information sent by the Air segment. The results of this last project is the Ground Segment are able to process and store data sent by the Air Segment and able to perform motion control in the Air segment.

Keywords: *Ground Segment, Air Segment, Payload, KORINDO*