

RANCANG BANGUN ROBOT “ECO” PADA KONTES ROBOT INDONESIA SESUAI TEMA ABU ROBOCON 2016

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ABSTRACT

Making robots "eco" in the Indonesian Robot Contest according to the theme ABU Robocon 2016 contest aims to attend the robot, where the robot task is later is carrying a propeller which will be installed by robot hybrid on pole at the end of the track. The movement of the robot is obtained from wind boost hybrid robot and followed a line that is on the track. Robots do not have the required eco actuator propulsion, eco robot has only one actuator only and it should be used to control (Stiring). The hardware consists of (1) The minimum system ATmega16 as the main controller, (2) Sensor line (line follower) as a follower of the line on the track, (3) Servo as actuators only robot and is only used as a control (Stiring), (4) Sensor IR-Sharp as a tool to avoid obstacles. Based on the test results can be concluded that this eco robot can work in accordance with the principles designed workstation.

Keywords: ATmega16 Microcontroller, Sensor IR-Sharp, Servo, Sensor Line (Line Follower).