REALISASI ROBOT HUMANOID BERBASIS AVR

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ABSTRAK


REALIZATION OF
HUMANOID ROBOT BASED ON AVR

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ABSTRACT

Robotic has been developed rapidly. This development produces robots with various skills. The point of interest from robot is its structure. In essence, people want to create a perfect robot with great skills. Nowadays, humanoid robot is being developed. This robot has not only a human form but also been created so as to has human skills.

This Final Project realize a humanoid robot. The movement system is created like human movement. This robot uses twelve servos for the structure. The legs use six Hitec HS-475 HB servos and the arms use five Hitec HS-422 servos and a Hitec HS-475 HB servos. The robot is 27 centimeter tall and created from aluminium sheet with 1 mm thickness. This robot controlled by microcontroller AT MEGA 16. This robot also equipped with an infrared sensor. The movements are walking, get up, push up and avoid an obstacle. With a percentage of success for get up is 100 % and 90 % for push up. A robot step is between 3 to 4 centimeter.

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