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CONSTRUCTION OF A WALKING ROBOT

FINAL REPORT

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ABSTRACT

Walking robots are very famous at manufacturing field and sending them to do high risk task, this will endanger human life.

Walking robot has much better mobility than conventional wheeled robots, but they tend to tip over easily. To be able to walk stably in various environments, it is necessary for the robot to adapt to the ground conditions with a foot motion, and maintain its stability with a torso motion.

To construct a walking robot, some important elements such as electrical, electronics, mechanical, microcontroller and software engineering are taken into consideration.

The aim of this project is to achieve the movement and directional control of the robot and several numbers of the motor can be synchronized to achieve stable motion. Also to fix the sensor on the robot body as the eye of robot then learns the programming that would be able to control the entire movement of the robot.

This final report clearly shows the overall idea, the design and the basic concept of the walking robot.