ABSTRACT

In today's modern era many scientists have created robots that are inspired from the main living creatures of humans and animals. The goal can be simply to make or to help the work of the man himself. Robot created is one of the robot-inspired implementation of animals or insects that can walk on vertical surfaces. This robot can only walk on the surface of walls or glass.

This wall climbing robot works like a lizard that can walk and stick to the wall. To do so, on the foot of the robot is installed a hose that is connected with a vacuum pump that can absorb air on the surface of the wall and use suction cup as a robot footwear. This robot uses a potentiometer as a servo motor controller and push button as a vacuum pump controller. The controllers are connected directly with arduino mega as microcontroller.

Automatic control by simply using the push button as a component that activates the robot motion up and down, can be said to be efficient in terms of time corresponding to the delay in the program.With these controllers, the robot can step vertically and can stick to the surface.

***Keywords**: Robot, Climbers, Wall, Glass, Lizard, Arduino, Suction Cup*