Abstract

Humans in every activity requires energy. The most frequently used energy is electric energy. In this case, one tool that can be used as an energy harvester is a speed bump because at each vehicle speed bump across the kinetic and potential energy stored is large enough. Besides speed bump is also used in various places as a sign that we have entered a specific area such as malls or shopping centers.

The method used in bump speed as a means of exploiting the energy harvester is to change the translational motion of the speed bump because the load and speed of traffic at a rotational motion. By using electromagnetic principles, rotational motion can be converted to electrical energy generation. In this thesis we will design a power generating system speed bump on the mechanism of energy harvesters.

From this final project we will get the prototype power plant systems and data speed and mass variations influence of vehicles on the electric energy generation in the power generating system.
Keywords: speed bump, the mechanism of energy generation, power generation systems, magnetic induction, electrical energy generation.