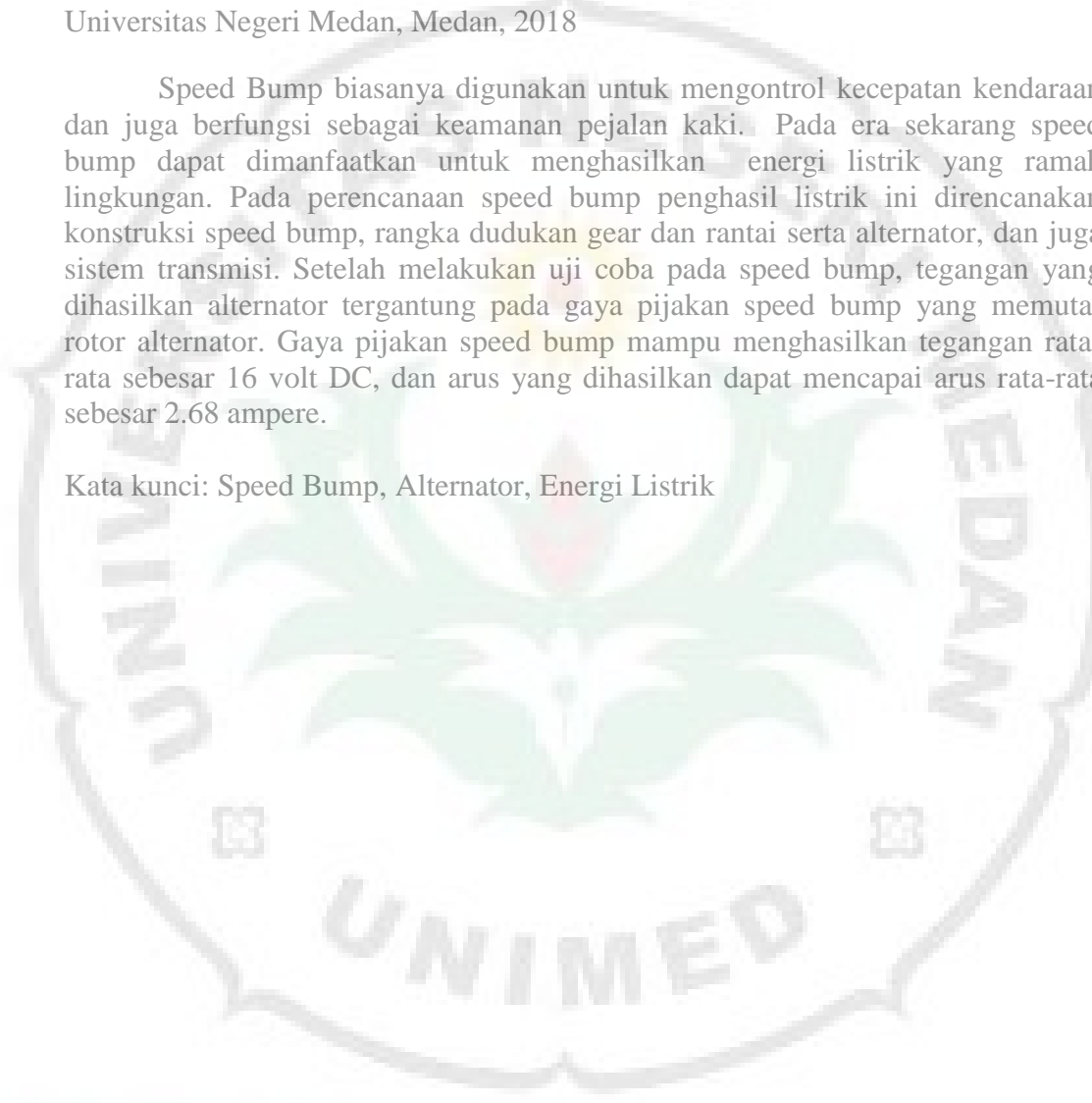


## ABSTRAK

Ricky H Sinambela: *Desain Speed Bump Penghasil Listrik*. Tugas Akhir. Universitas Negeri Medan, Medan, 2018

Speed Bump biasanya digunakan untuk mengontrol kecepatan kendaraan dan juga berfungsi sebagai keamanan pejalan kaki. Pada era sekarang speed bump dapat dimanfaatkan untuk menghasilkan energi listrik yang ramah lingkungan. Pada perencanaan speed bump penghasil listrik ini direncanakan konstruksi speed bump, rangka dudukan gear dan rantai serta alternator, dan juga sistem transmisi. Setelah melakukan uji coba pada speed bump, tegangan yang dihasilkan alternator tergantung pada gaya pijakan speed bump yang memutar rotor alternator. Gaya pijakan speed bump mampu menghasilkan tegangan rata-rata sebesar 16 volt DC, dan arus yang dihasilkan dapat mencapai arus rata-rata sebesar 2.68 ampere.

Kata kunci: Speed Bump, Alternator, Energi Listrik



## **ABSTRACT**

Ricky H Sinambela: *Speed Bump Design to Produce Electricity*. Final Project. Faculty of Engineering, Medan State University. Medan. 2018.

Speed Bump is usually used to control the speed of vehicle and also functions as a pedestrian safety. In the present era of speed bump can also be utilized to produce electrical energy that is environmentally friendly. At the speed bump planning of this electricity emitter is planned construction of speed bump, frame of gear and chain holder an alternator, and also transmission system. After conducting a test on the speed bump, the voltage generated by the alternator depends on the pace of the buck speed bump which rotates the alternator rotor. The speed bump footsteps can produce an average voltage of 16 volts DC, and the resulting current can reach an average of 2.68 amperes.

Keywords: Speed Bump, Alternator, Electricity

