

Abstract

The use of IoT (Internet of Things) in this era became one of the technological trends in this era to facilitate all things needed by humans. In the use of IoT (Internet of Things) resources are also needed to get the components in it. The usual source of energy used is electricity, besides that it can also use batteries as the main resource. An alternative energy generating solution is needed that can produce electricity without special maintenance to be able to direct electricity that can be provided in the electricity supply, a solution offered by using a thermoelectric module that can harvest energy or produce energy that can generate electricity. Thermoelectric can be a solution for IoT devices in electricity needs, thermoelectric converts hot temperatures and cold temperatures to electricity. The scenario used in this study is to use wax heat, engine heat and stove heat. The highest electricity produced is by using a hot stove of 18.48V for 20 minutes of charging.

Keywords: IoT (Internet of Things), power, thermoelectric