

Research Title: Design and development of Wind Energy Harvesting Kits for Kids

Researcher: Mr.Songmoung Nundrakwang, Dr.Don Isarakorn

Faculty:Engineering.....**Department:** ..Instrumentation and
Control Engineering.....

ABSTRACT

This research reports on energy harvesting from the environment from piezoelectric vibrations. The aim of this project is to design the piezoelectric energy harvesters to harvest wind energy. This research involving producing electricity from low speed wind aims to create small-scale generator. Piezoelectric PVDF material; a type of material transfers even less vibration to electricity is designed to stick with different form of PVC sheet. Width, Length, Depth of PVC sheet causes different frequency and amplitude of voltage as well. Due to PVC sheet with PVDF, vibration occurs when wind blows through. This research might be alternative energy in the future.

Keyword : energy harvesting, piezo PVDF, wind type generator, power management circuit