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School of Engineering

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Final Report

Design of Solar Bus

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PROJECT TITLE : DESIGN OF SOLAR BUS

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ABSTRACT

Nowadays, solar power is widely in use. The source is naturally come from our globe as mankind consumes in every other from during an entire year. Here, photovoltaic (photo = light, voltaic = electricity) are a semiconductor based technology, which is used to convert sunlight directly to an electric current that can be used directly.

The rapid growth of urban air pollution from transportation vehicles necessitates the introduction of sustainable technologies that will reduce the pollution to save the environment. The following report is a documentation entitled " Design Of Solar Bus". The goal is to achieve a good enhancement reading in solar absorbance test by designing a high peak power controller design by a circuit that can be consider as a combination of hardware scale-down model from the real prototype. The test will run through weeks with the solar absorbance readings in order to develop circuit controller for the battery that could supply enough power to run the dc (direct current) motor. From the result obtain, critical analyze would be made through the limitation of the prototype and future enhancement that could be done. In order to design the bus, few assumptions have been made for the specifications of the electric vehicle.

Based on the specification of this electric vehicle, theory calculation is applied and the bus model will be design. A number of researches have been starting it in other area and the idea is used in obtaining the power needed to drive the vehicle, which will help to achieve the objective of this study.