ABSTRACT

An automatic cut off for inverter is a system that can be included in the Power inverters to ensure that under no load condition is quickly detected and cut off the supply to the inverter to prevent the inverter to work unnecessary. Power inverters are useful electronics circuit that produces AC power by supplying DC voltage from a battery and the produced AC can be used to power some electrical devices i.e. fan, computer, televisions etc. The purpose of this project is to make sure that the inverter works only when there is something to operate at the output. By accomplishing this it will ensure long lasting of the battery due to it is used only for a specific purpose and time.

Project I covered during the first semester was about discussion of the project in introduction, the formulation of problem that lead to this project, existing system overview and its limitations, this followed with proposing a solution to meet the limitation of the existing system.

Project II is covered in second semester which involve collecting relevant data and analysis to design and implementing a circuit that will reduce the problem stated. In implementing the projects various steps were carried out, which a circuit simulation on software before building the circuit so as to perceive the output, testing the circuit and building the prototype to obtain an actual thing that will solve the problem.

At the end the project was not able to meet the objectives but that does not mean a total failure of the project but there are various actions to be undertaken in order for it to work properly, some of this actions is the selection of the inverter that will be used with the switching circuit and the load used must match the design.