

ABSTRACT

Peoples are very busy nowadays. Even sometimes they do not have time to maintain their lawn. Thus, with the creation of this automatic cutting grass machine, it can help a lot of people to maintain their lawn while they can do others things such as reading books and take a nap.

The aim of this project is to design an automatic cutting grass machine that will cut a grass and clean it back using a vacuum. This machine prototype had been design, so that it can cut a grass and use a vacuum to clean it back.

The main component in this project is PIC16F877A. This device is act as mastermind in the system to control the whole process. Before the system able to operate, the setting must be three important things, which is size area, speed and tire diameter.

The machine will be moving automatically when the setup is done. The machine has its own pattern of movement that had been program in the PIC16F877A. The motor will stop if the task completed and when the sensor detected an obstacle.

Overall, the project outcome fits the aim and objectives.