ABSTRACT

Nowadays, hedge trimmer required a lot of maintenance from time to time. A automatic trimmer will be preferable that would automatically trim and make evenly nice looking on the hedge.

This project presents the design and implementation of an automated robot which can trim a rectangular hedge. The robot programmable to predetermined height and width and adjust the pruner accordingly.

PIC16F84A used as a 'brain" to control all the system in this project. IR sensor is used as sensor to sense hedge and condition of path. Robot arm will automatically extend when there is a drain between path and hedge. Besides that, blade will stop functioning if there is life form is detected around the hedge. When no hedge is detected, blade will stop functioning.