OBSTACLE DETECTION USING RF MODULE

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The assigned title for ENG 3042J final year project is **Obstacle Detection using RF Module**. The system of the project is typically used to help visually impaired person to do navigation for life environment.

The design of the project is expected to achieve several requirements namely information provider using radio frequency module, obstacle detection using sensor. RF module is used to give information within a proximity range which is up to 5M. the system is able to detect 5 obstacles in an environment.

In this project, I decided to use walking stick as a desired travel aid for visually impaired person. RF module will be installed on the walking stick to do obstacle detection an information provider. For location and tracking system, 3 ultrasonic sensor modules are also assembled for additional function. This function would help user to do obstacle detection in a short distance. For the alert purpose, voice circuit with ISD 1110 and buzzer system are used to warn user that there is any obstacle is detected in an environment.

All details will be discussed further in the project report. Hope you enjoy the time of reading it.