An autonomous robot for waiter service

in restaurants

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Declaration

We hereby declare that the Thesis Title "An autonomous robot for waiter service in restaurants" is submitted to the Department of Electrical and Electronic Engineering of BRAC University in partial fulfillment of the Bachelor of Science in Electrical and Electronic Engineering. This is our original work and was not submitted elsewhere for the award of any other degree or any other publication.

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Abstract

The Waiter-Bot is an exceptional autonomous robot which has the ability to follow a designated path like a pathfinder with the help of IR sensor arrays and reach its intended destination. It is an arduino based robotic design implemented to seek out and detect its required destination and perform its deliberate tasks with precision and accuracy. The Waiter-Bot consists of simple mechanical design which has simple mechanism with which performing the necessary tasks becomes easier. Due to its design parameters, it also requires less power and draws less current which allows us to work with the robot safely. Moreover, it also adds to the safety to its environment and the people around it. Its light weight build up allows us to assemble the parts without having the difficulty to carry it anywhere. Once assembled, the entire robot still remains light in its weight and can easily be moved around if necessary. Based on its complete set-up and overall parameters, the waiter-bot stands out on its own to become an important aspect to the solution of this thesis project.

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