

Hotel Automation by Wireless Menu Ordering and Serving Robot

Er. Bansode B.N¹ and Kshirsagar Pranali Balasaheb²

Department of Electronics Engineering^{1,2}

Amrutvahini College of Engineering, Sangamner, Maharashtra, India

Abstract: In today's world the use of robot is going on increasing. Robots are able to carry out every work more effectively and efficiently than a man can do. Hence one of such application of robot could be SERVING ROBOT. There are many areas of research that could be done for a serving robot. In this project we have try to demonstrate a prototype of Autonomous Serving Robot which will serve the food to the customer. The implementation is done with available resources to reduce the cost of project. In today's restaurant Digital multi-touch menu cards and other forms of digital facility are replacing old fashioned services like-waiters can take order from customer and serve them. Intelligent Restaurant system delivers almost infinite flexibility in promoting meal and snack options. Intelligent Restaurant system uses technologies Innovatively in a modern restaurant such as multi-touch LCD with Microcontroller, Bluetooth module, database & line following Robot to enhance quality of services and to enrich customer's dining experience. A line following robot is designed using sensor operated motors to keep track the line path predetermined for meal serving. PayPal is used for online payment. In this paper we demonstrate the idea of automatic menu serving robot. In this paper we have made a robot which provides proper service to customer in restaurant. If a person wants to give an order then he can call the robot by simply pressing a switch on his table. The whole system makes use of wifi/bluetooth technology

Keywords: Arduino, Motor driver, IR, LCD

REFERENCES

- [1]. Anjali M. Yelasange, Husain K. Bhaladar, Kirti A. More, Anjali P. Katkar , "Autonomous Robot for Delivering The Orders in Restaurants By using Raspberry Pi" : International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-6, March2020.
- [2]. Neeti Malik, Neetu Rani, Alpana Singh, Pratibha, Srishti Pragya , "Review paper on- Serving Robot New Generation Electronic Waiter" : IJRST –International Journal for Innovative Research in Science & Technology| Volume 2 | Issue 11 | April 2016 ISSN (online):2349-6010.
- [3]. Livisha.K,Vinothini.S, Dhaheera Banu.M , R.Poonguzhali , "Wheeled Robotic System for Restaurants" : International Journal For Trends In Engineering & Technology Volume 32 Issue 1 – August 2018 - ISSN: 2349-9303.
- [4]. Neelima Mishra, Dr. Dinesh Goyal, Dr. Ashish Dutt Sharma , "Automation in Restaurants: Ordering to Robots in Restaurant via Smart Ordering System" : Suresh Gyan Vihar University, Jaipur International Journal of Converging Technologies and Management (IJCTM)
- [5]. Volume 4, Issue 1, 2018 ISSN: 2455 – 7528
- [6]. Ang Benson (2016), Robot Lucy at your services at newly opened Rong Heng Seafood, The Strait Times Lifestyle, <http://www.straitstimes.com/lifestyle/food/robot-lucy-at-your-service> [Accessed 16 Mar 2016]
- [7]. Patel Mayur Kumar, "online food order system for restaurant "(2015)Technical library .Paper 201
- [8]. Referred "Robot Building for beginners" book by author David cook and " Introduction to al Robotics" by Robin R. murphy.
- [9]. Raman Maharjan and Jyotir Moy Chatterjee, "Adoption And Impacts Of Robots In Service Sectors Of Nepal" : Volume 1, Issue 2 (December 2019) ISSN: 2705-4683; e-ISSN: 2705-4748