

## ABSTRACT

The restaurant is a culinary tour for the wider community, many of which sell a variety of foods from seafood, chinese food, western food and others. The restaurant also provides good service quality. Service is also a criterion for consumers. Moreover with the unique service can attract consumers to come to the restaurant.

In this final project will be made robot waiters. Waiters robot is designed to record orders and come to customers.. This waitres robot uses android or android that serves to display the food menu and save the selected menu, microcontroller as a robot controller, sensors used to detect robot path, and bluetooth to connect between robot and android.

The purpose of this final project development is to improve the quality of service in restaurants. This final project can also attract consumers to come to the restaurant and provide knowledge to consumers about the development of technology. With the development of technology we can create something that make easer a job. From the results of this final task testing prototype waiters robots run in accordance with the expected and the time obtained in each table address not more than 30 seconds and with a distance of 2.57 m obtained speed is 0.086 m / s for departure and for the time required when returning no more From 20 seconds with a distance of 2.57 m obtained speed is 0.129 m / s.

Key Words : *mikrokontroler, sensor, android, bluetooth.*