

## **ABSTRACT**

*Now the electronics technology is growing rapidly and more reliable. Microcontroller is one of emerging technology. Microcontroller applications are widely used in electronic equipment that already exist today. During this time a waiter in a restaurant should serve a customer who came. It is extremely inefficient if the number of customers is not proportional to the amount provided by a restaurant waiter. Therefore designed a tool automatically using a wireless network or wireless.*

*This instrument is placed on each table of customers. Accordingly, any direct customers can order food and drinks that ordered simply by pressing the keypad and see it on the LCD (liquid crystal display). The food order will be immediately processed by the microcontroller to the computer cashier who will continue to the kitchen computer to process the food ordered. The system is using the wireless network communication data, so the the installation is not difficult and does not spoil the beauty of the restaurant. Expected with this tool the service system become efficient restaurant.*

*One advantage of this tool is the customer at the restaurant does not need to call the waitress just simply press the button on the keypad and just waiting for his order. From the test results show the system is able to transmit data very well as far as 40 meters with a obstacles and without obstacle. For delivery simultaneously on two tables of customers have not maximum results. But generally it can be concluded that using this system is able to help the restaurant owners to provide better service.*

*Keywords : wireless, mikrokontroller, ASK (Amplitude Shift Keying)*