ABSTRACT

The development of technology is capable to help people to create a tool that is able to work independently with just a human command. Today we can see how the development of fast-food restaurants are visited by consumer every day. Hectic consumer should be supported with service from the restaurant manager.

In this final project would design of food delivery robot prototype. Food delivery robot prototype is based on ATMega16 microcontroller that detects the line by LED and photodiode sensor. The principle of this robot prototype is as follows, when the keypad on the robot prototype is pushed, the robot detects a line through the sensor wheel while moving the robot to a destination customer table. After the robot arrives in the customer table then customer takes food on the robot and pushing # button. After that the robot prototype go back to the kitchen of the restaurant to wait for the next food delivery.

The expected result of this final project is a prototype that could deliver food from the kitchen to the table of customer in restaurant.

Keyword : microcontroller, line follower, restaurant, robot prototype