

## *ABSTRACT*

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The implementation of Embedded System technology in the restaurant and culinary business is increasingly common. Starting from the payment model, service and food processing. However, rarely found Embedded System technology in sushi restaurants is used to help the Kaitenzushi sales model. Kaitenzushi sushi is a sales model of ready-to-eat sushi that puts small plates in circulation with the help of conveyor belts so that restaurant visitors can take their own sushi dishes themselves. Payment of kaitenzushi generally uses manual method with calculation based on the number, color, or plate motif that has been empty. This system is built by utilizing a color sensor to help calculate and identify foods taken by consumers based on dishes. When passing through this tool the color sensor will read the color of the plate and send data using the Xbee Pro module as a communication tool between the tools on each customer table and the cash register to be processed and displayed on the GUI by using the Visual Studio application so that the calculation does not need to be done manually.

Keywords: Arduino Mega, Kaitenzushi, Prototype, Color Sensor, Visual Studio, Xbee Pro