Smart Waiter Robot from UGM

Wednesday, 11 September 2013 WIB, By: Marwati

It's not strange for us to hear about smart home technology. Smart home is a technology that can ease household chores that is integrated with the computer. But what about *smart restaurant*?

Four UGM students, Ardiyan Rofiq, Lutfi Yahya, Rilla Khoirunisa, and Claricha Audi, were inspired to make an innovation in the form of a new robot that can act as a waiter, delivering food from kitchen to the dining tables. The robot is named ROPADAS, which is the abbreviation of *Robot Pramusaji Cerdas* (Smart Waiter Robot).

"The robot is developed using line follower robot applications. It walks from the kitchen to the dining table following the black line marked on the floor," said Rofiq, Tuesday (10/9).

According to Rofiq, operating the robot is easy. The restaurant using the ROPADAS should be equipped with a black track for the robot to follow. The operator only needs to supply food as ordered by consumers, also to press the button supplied and choose the number of the tables according to the order. Automatically, the robot will walk from the kitchen to the table and ask the consumer to take it.

"The consumer who has taken his order will have to press the button as instructed, then the robot will return to the kitchen," he added.

ROPADAS has supporting features including, sound module, RTF sensor and a tray with bearing. The sound module is made so that the robot can interact with consumers, for example asking them to take the food. The robot can also stop an action if there is a man or a thing standing on its way. This is to avoid a crash between the robot and men.

It is expected that the robot can help restaurants that have bad service and it can be made an icon to attract diners. It is also a pioneer in Indonesian smart restaurants.

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