

Cooking English Muffins with COBOTTA

Exhibition sponsored by: Aichi Institute of Technology

Overview

Multiple processes required for cooking English muffins are automated with one COBOTTA. By having a robot perform all the processes for cooking muffins, from baking to serving, while fully utilizing normal kitchen utensils, this system is able to replace humans with robots.



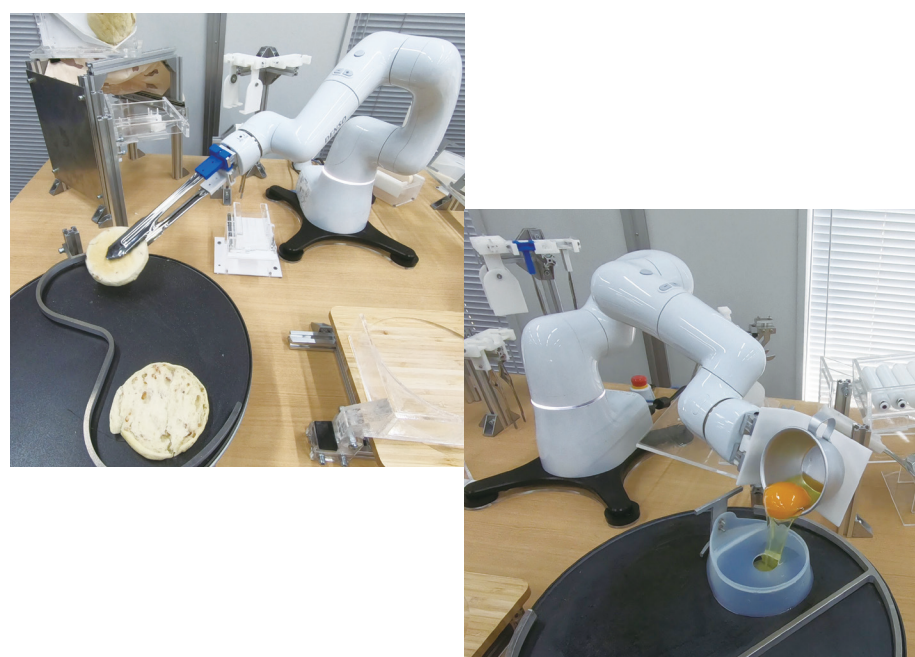
A Simple System with Full of Ideas

The knowledge and ideas of students enable this simple multi-process system for cooking English muffins. The ideas incorporated in each process, such as the frame for securing the muffin to the plate and the tools for taking out individual slices of ham and cheese, work in harmony with the movement of the robot to create a system that is also fun to watch.

Cooking Process

point 1

Spread oil and fry muffin and egg.



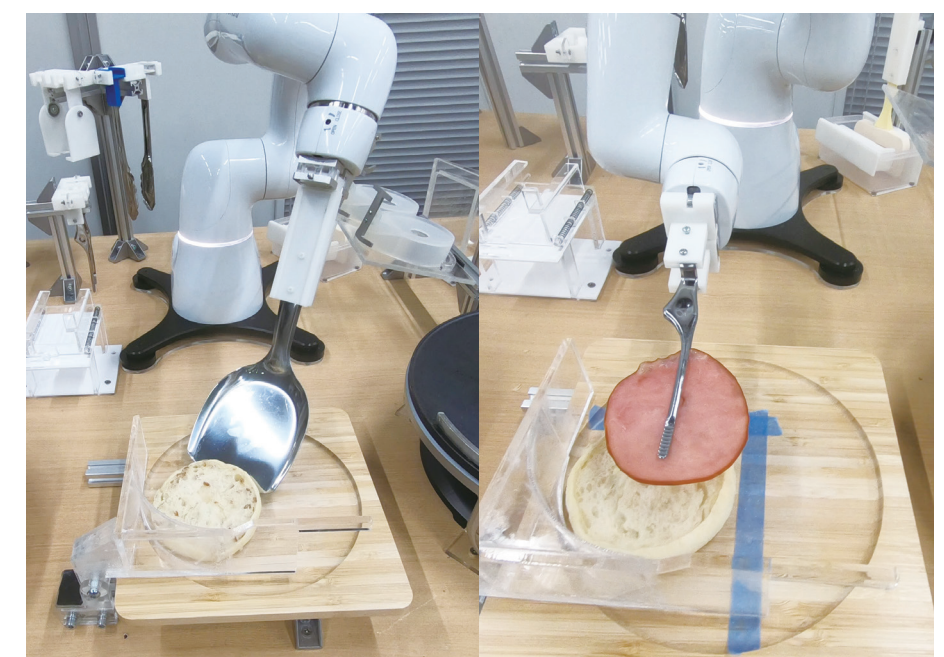
point 2

Place vegetables on plate.



point 3

Fry reverse side of muffin and ham and place on plate.



point 4

Place cheese on muffin.



point 5

Place egg on muffin.



point 6

Ready to serve.



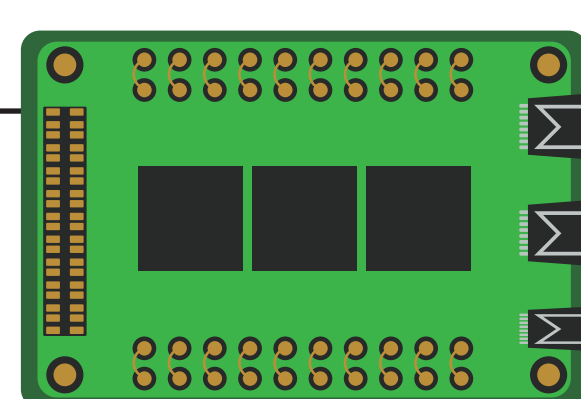
System configuration



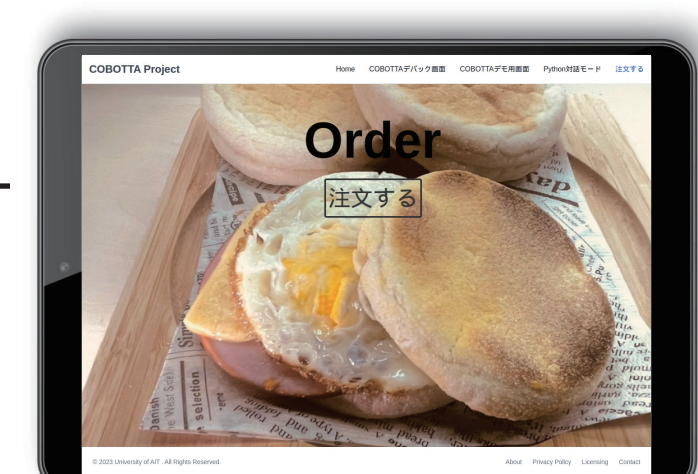
COBOTTA

Boot specified program
Ethernet

Select program with order as trigger



Raspberry Pi



Tablet for ordering