

## Literature for Commercial Product

	Robot Name Features	Obi	Meal Buddy	Bestic	Our Feeding Robot
Human-Robot Interface	Eye Tracking				<b>✓</b>
	Push Buttons	✓	✓	✓	<b>✓</b>
	Joystick		✓	✓	
	Head Control			✓	
	Chin Movements				
How to reach to the user?	Teaching Phase	✓	✓	✓	
	Mouth Tracking				<b>✓</b>
Mechanical Design	4 - DOF		✓	✓	<b>✓</b>
	6 - DOF	✓			
Serving	Single Plate			✓	
	3 Plate		✓		<b>✓</b>
	4 Plate	✓			
11 120	Easy to Transport	✓			
Usability	Cost	37,500 TL	21,000 TL	23,400 TL	4750 TL

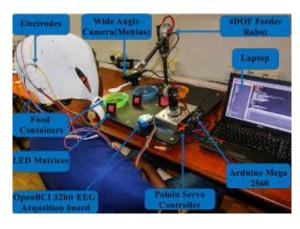


## Literature for Academic Studies



Tanata et.al. (2014)

- ➤ User interface
  - Eye-tracking
- End-effector movement
  - Just moves in one direction.
- ➤ Other Features
  - Uses ultrasonic motors.
  - Not harmfull to sensetive diveces.



Perera et.al. (2017)

- User interface
  - > EEG signals
- > End-effector movement
  - Finds the mouth position of the user.
- Other Features
  - Detection of open/closed mouth.



Bhattacharjee et.al. (2019)

- ➤ User interface
  - > Fully autonomous.
- > End-effector movement
  - Finds the mouth position of the user.
- Other Features
  - Detection of open/closed mouth.
  - Uses fork as an end-effector.
  - Uses deep learning to find approach angle.



## Working Plan of Senior Design Project

	7 Oct.	14 Oct.	21 Oct.	28 Oct.	4 Nov.	11 Nov.	18 Nov.	25 Nov.	2 Dec.	9 Dec.	16 Dec.	23 Dec.	30 Dec.	6 Jan	13 Jan	20 Jan.	27 Jan.	3 Feb.	10 Feb.	17 Feb.	24 Feb.	2 Mar.	9 Mar.	16 Mar.	23 Mar.	30 Mar.	6 Apr.	13 Apr.	20 Apr.	27 Apr.	4 May.
Design of the system																															
Analysis of the system																															
Demo of the motors																															
Demo of the mouth tracking																															
Demo of the eye-tracking.																															
Development of the user interface																															
Integration of the electronic parts																															
Integrat, on of motion planning algorithms																															
Ingetration of other software features																															
Documentation																															









