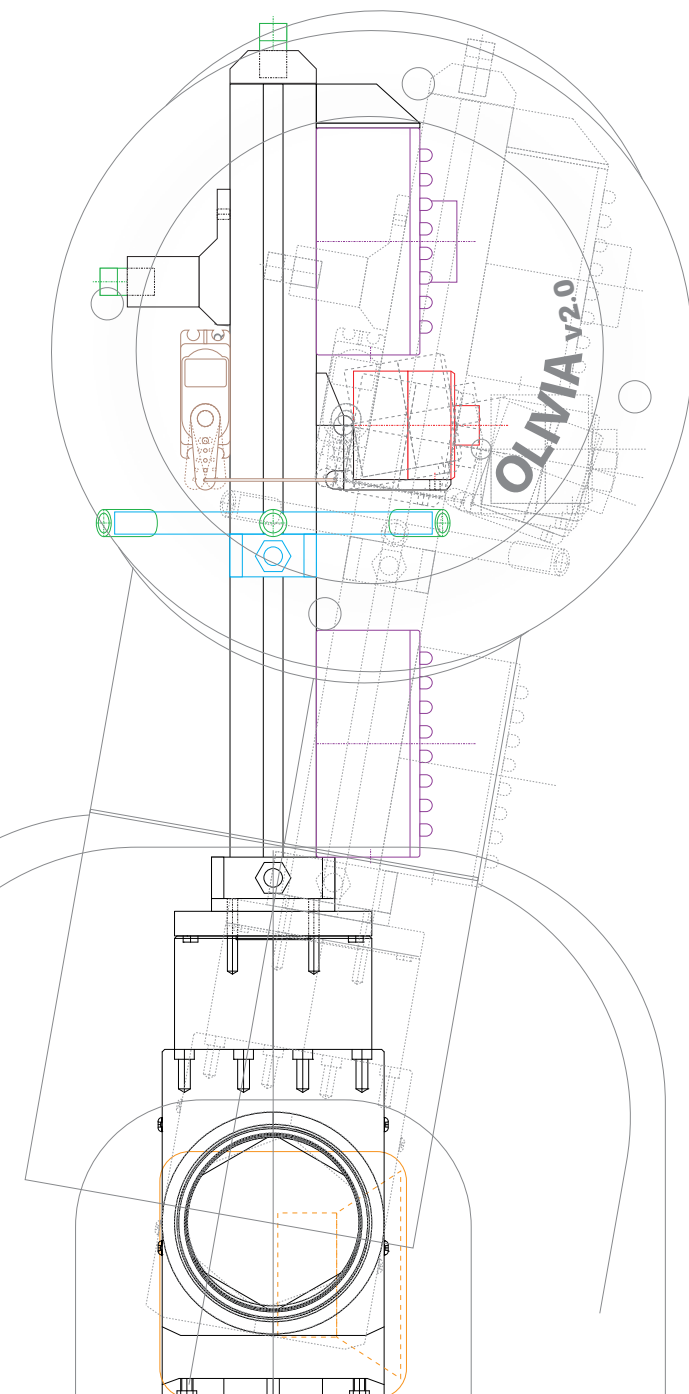


# Olivia 2.0

## Receptionist Robot Prototype

Olivia 2.0 is the very first Robotic Receptionist Prototype developed by the A\*Star Inter-RI Robotics Programme led by I<sup>2</sup>R. The robot is designed to interact with visitors in dialogue with humanlike gestures, and it is able to recognize specific objects. It showcases the recent advancement in social robotics research including Robotic Sense, Robotics Intelligence and Mechatronics.



### Key Features & Benefits

#### Attention-directed dialogue module version 1.0

- Greatly enhances the experience of human-robot interaction!

#### Vision understanding system based on multi-model fusion

- Robust human & facial features detection & tracking, & object recognition!

#### Spoken dialogue system

- Robust speech understanding and voice expression with emotion!

#### Far-talk microphone array system

- Effective background noise reduction.

#### Robotic arms, head and lower body

- Support total of 13 degrees of freedom for arms, head & body.

#### Robotic imitation learning of human motion

- Intuitive interface for user to teach complex motion & gestures to robot.