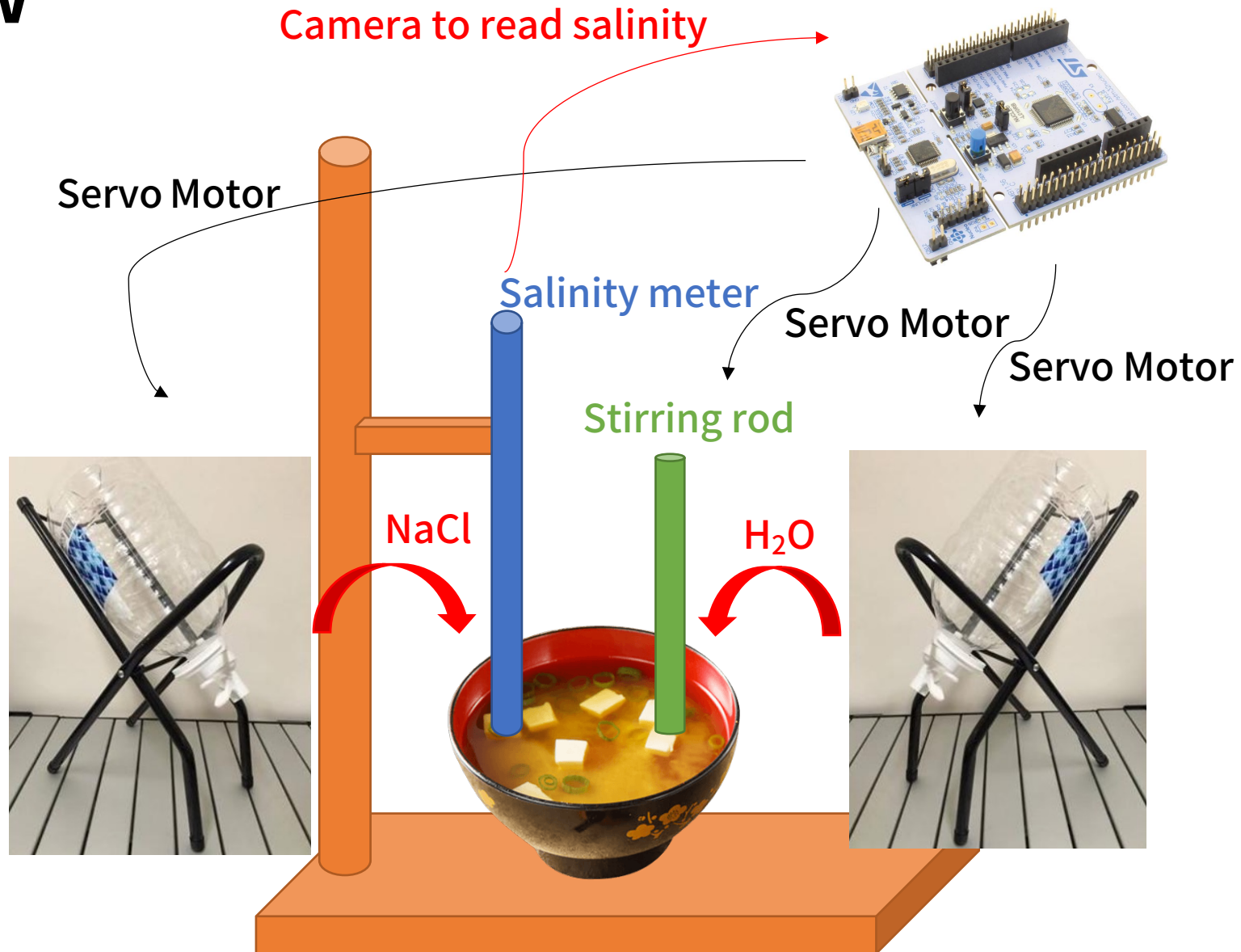# Intelligent Seasoner

Term Project Proposal

110-1 Embedded System Labs

2021/11/19

Outline

1. How it works? (Flow)
2. Why Intelligent Seasoner? (Motivation)
3. How to implement?
4. Possible Challenges
5. Feedback

Flow

Camera to read salinity

Servo Motor

Salinity meter

Servo Motor

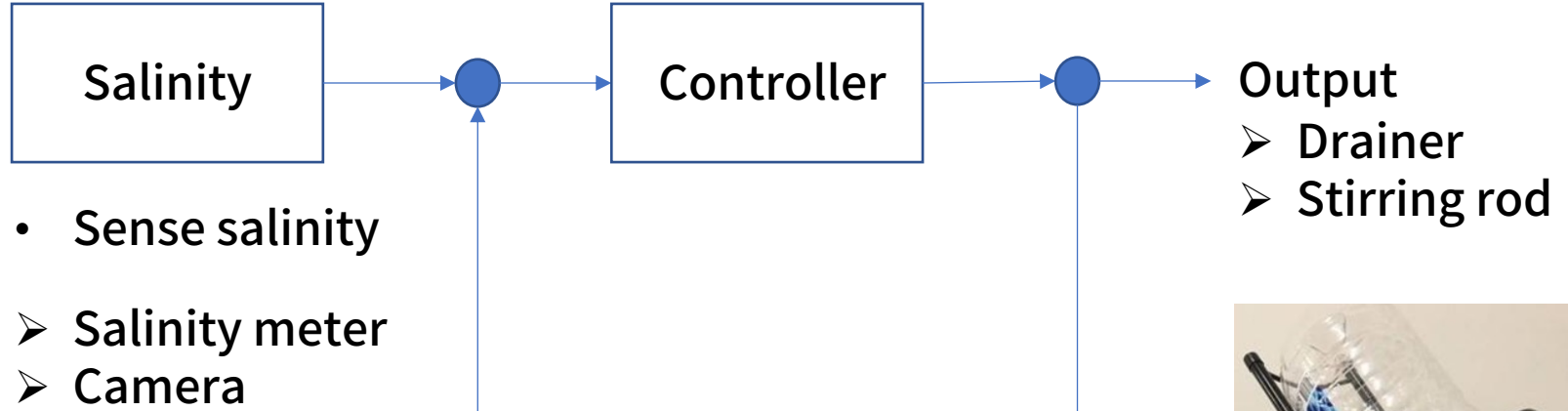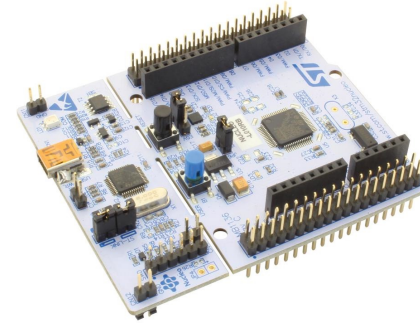Servo Motor

Stirring rod

NaCl

H₂O

Motivation

- When we buy soups in some stores, the soups may not be salty or thick enough as we expected.

- We want to make the soup as flavored as we preferred.

Implementation

➤ STM32
➤ Arduino

Salinity

Controller

Output
➤ Drainer
➤ Stirring rod

- Sense salinity

➤ Salinity meter
➤ Camera

- Add water
- Add salt

Possible Challenges

- Conductivity may be influenced by temperature.
  - ➢Need Correction

- The response time of sensing data may be too long, which depends mainly on salinity meters.

- How to control the flow of water/salt?

- How does camera read the value on the salinity meter?

Feedback

Thank You