Lemon Robotics Kit: Open-Sourced Bio-inspired Educational Robot Series to Enhance Quick Prototyping Skills of K-12 Students Workshop Schedule

Introduction and Project Overview

- Learn about the project's purpose and goals.
- Showcase previous observations and successful outcomes.

Building the Robot

- Assemble the fish robot using provided laser-cut MDF parts.
- Connect servo motors to Raspberry Pi Pico using jumper cables.
- Guidance from instructors during the assembly.

Overview of the Workshop

- Explain the workshop's aim and outcomes.
- Show completed fish robot models made by previous participants.

Electrical Component Integration

- Learn about Raspberry Pi Pico and its functions.
- Demonstrate hardware installation and coding of the robot.

Creative Experimentation

- Participants decorate their fish robot models using arts and crafts supplies.
- Play, experiment, and modify the robot's behavior using code.

Wrap-up and Showcase

- Share insights gained during the workshop.
- Present uniquely decorated fish robot models assembled by each team.
- Getting feedback from the participants.