

Robotics in Assisted Eldercare

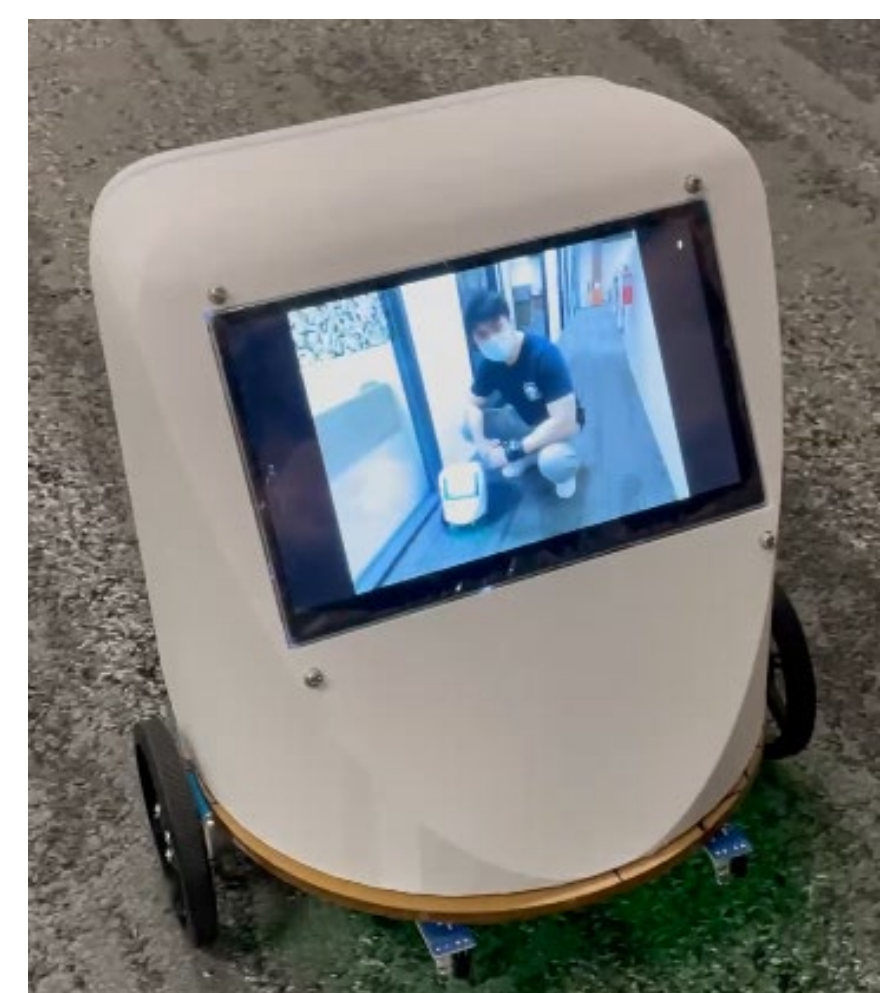
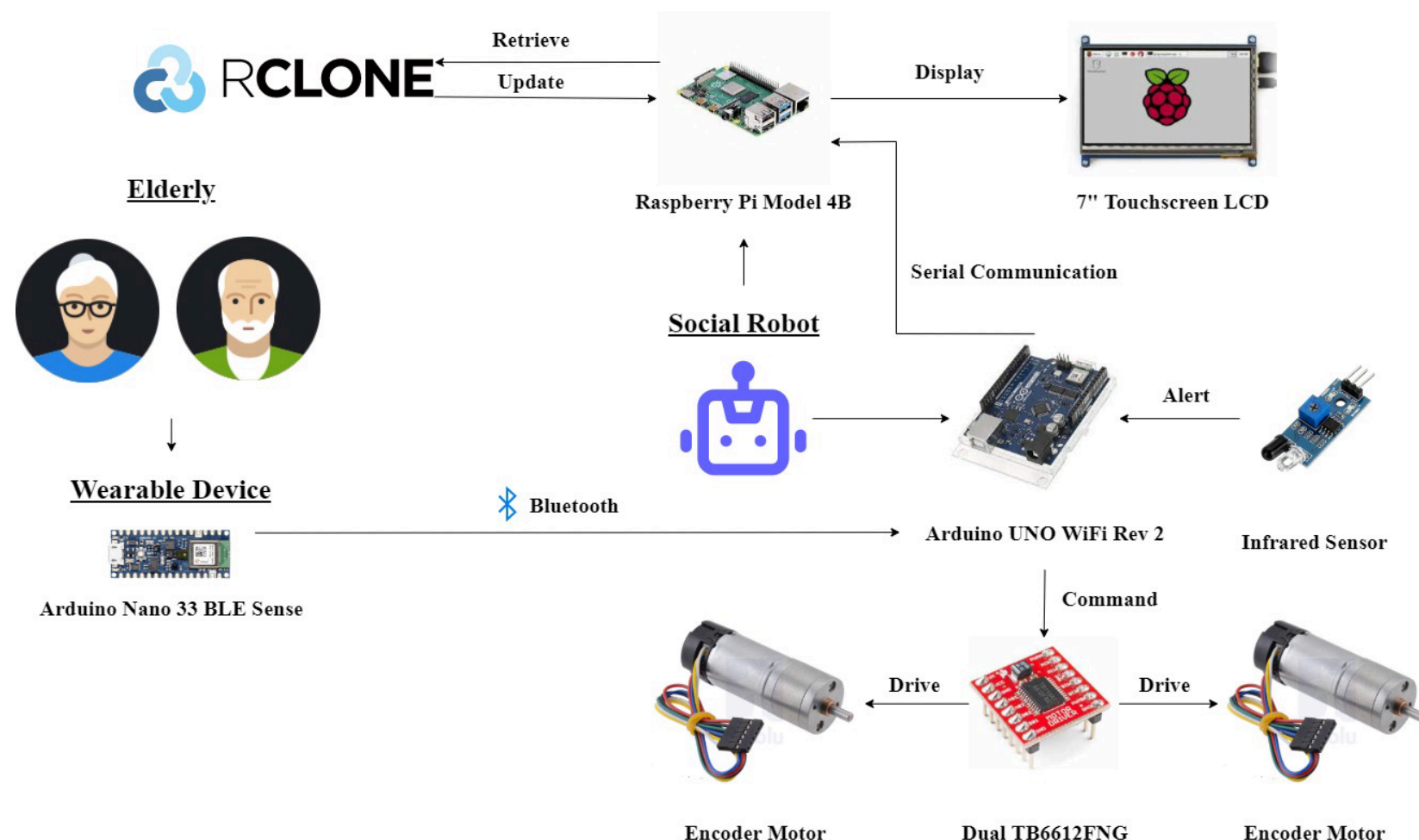
To maintain mental and emotional wellbeing of older adults

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Project Objectives:

- **Develop a social robot platform to deliver elderly care interventions** in their home
- The **intergenerational connectiveness** is one **demonstration** of an intervention on the platform to facilitate a **connection** between the elderly and the younger people by **leveraging social media content**
- The social robot could also **administer physical interventions** to introduce a **healthy lifestyle** via the **arm movements** to control the social robot's features
- Integrate **robot control, locomotion, human-robot interaction, and social medial content** into a solution geared towards the elderly



Features:

- **Display photos or videos** of their loved ones
- **Cloud storage to update or delete** content in **real-time** for display
- **Change the photos or videos, activate photo slideshow mode, and robot movement through hand gesture movements**
- **Edge Detection** to prevent social robot from falling off the edge

Why is this important?

- A local Singapore based solution that **offers interventions** that provides **unaided eldercare without constant monitoring**
- Demonstrates the **possibility of testing and validating interventions** for home-based eldercare
- Aims to provide **comfort and emotional support** for the elderly