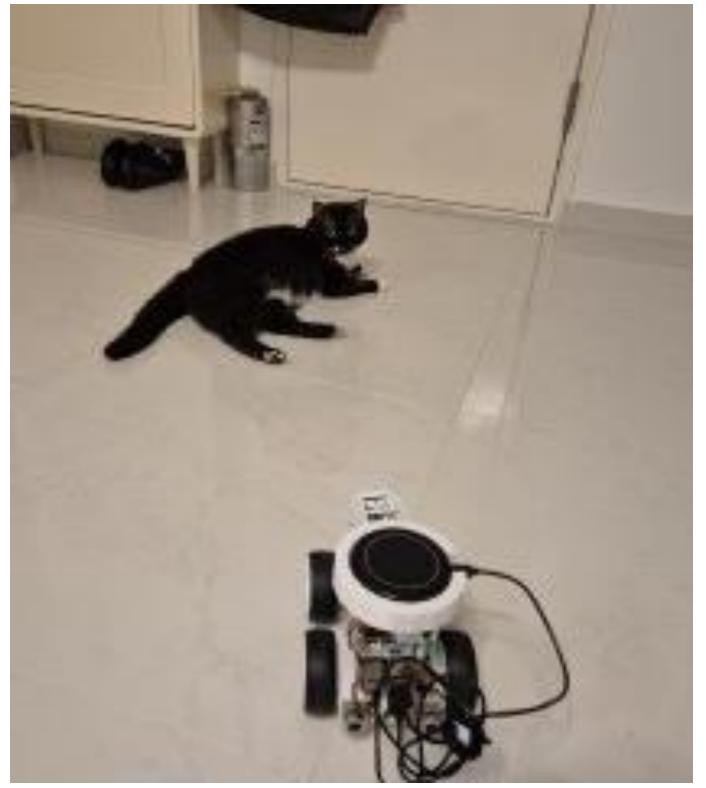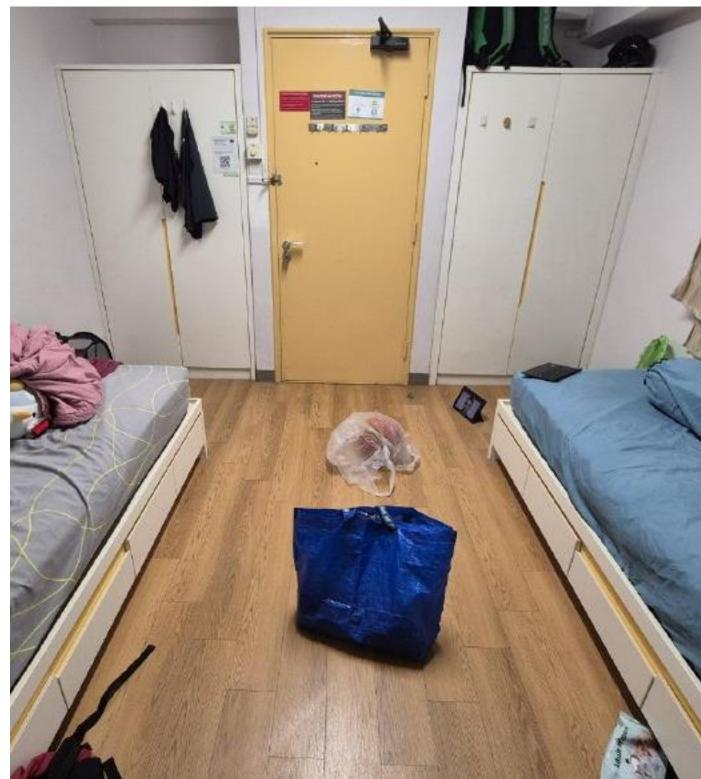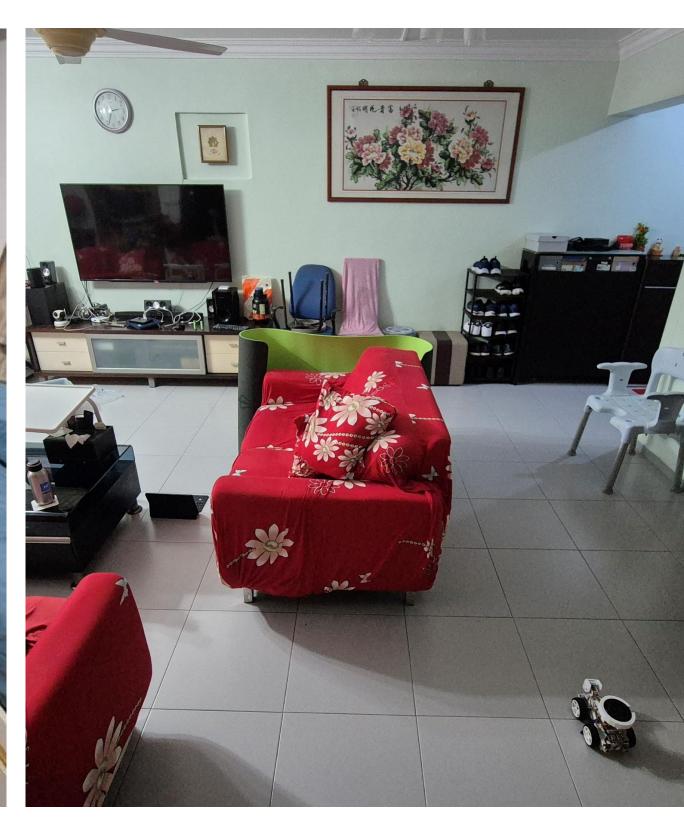# Search and Identify Robot

Student: Low Tse Chern, Kenneth   Supervisor: Mr Oh Hong Lye
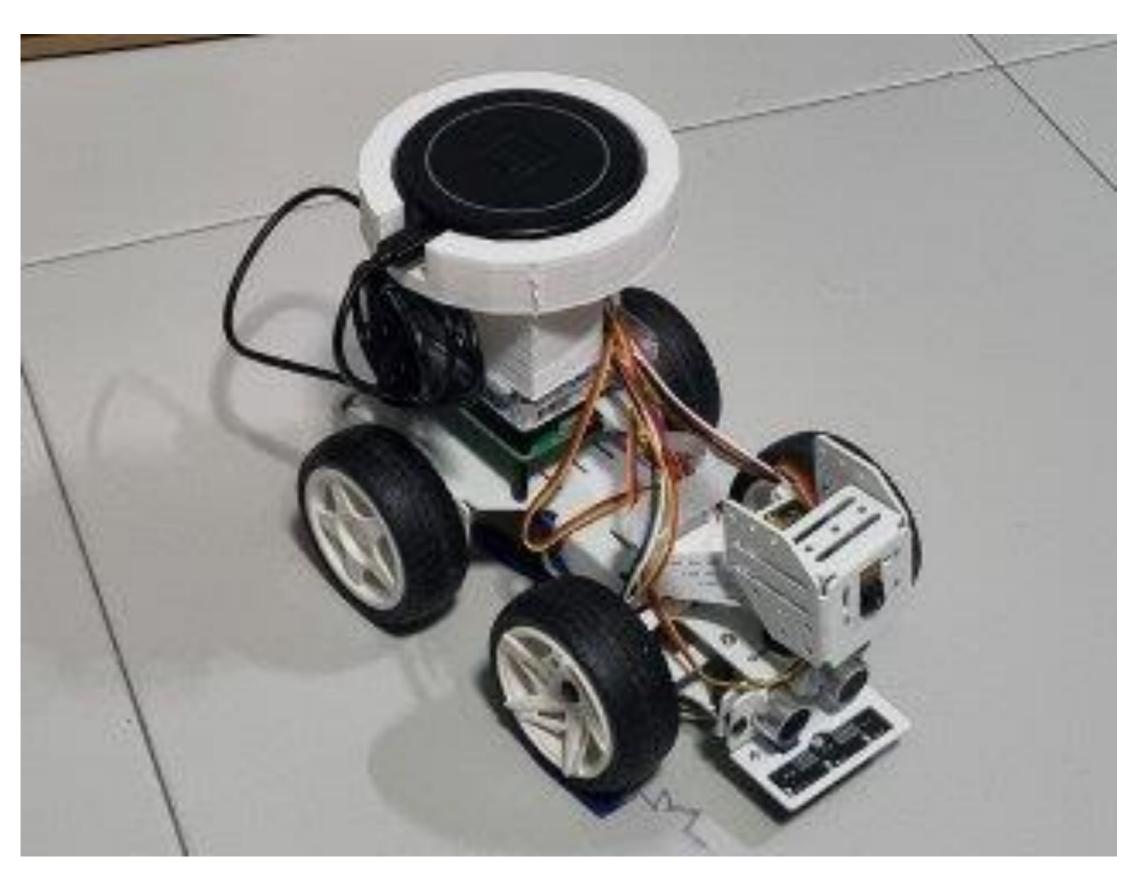
Use Cases :

Project Objectives:

This project aimed to develop a proof-of-concept autonomous search and identify robot. The robot's core functionalities included self-navigation, obstacle avoidance, audio cue interpretation, and target identification. These capabilities pave the way for the application of autonomous robots in diverse use cases, such as Search and Rescue (SAR) operations or as Pet Companions.

Search and Identify Robot Prototype

Applied knowledge

- Finite State Machine

- Multi-Threading

- Object Oriented Programming

- Microcontroller

- Closed Loop Feedback System