Mobile Robot Platform Control and Final Competition Overview
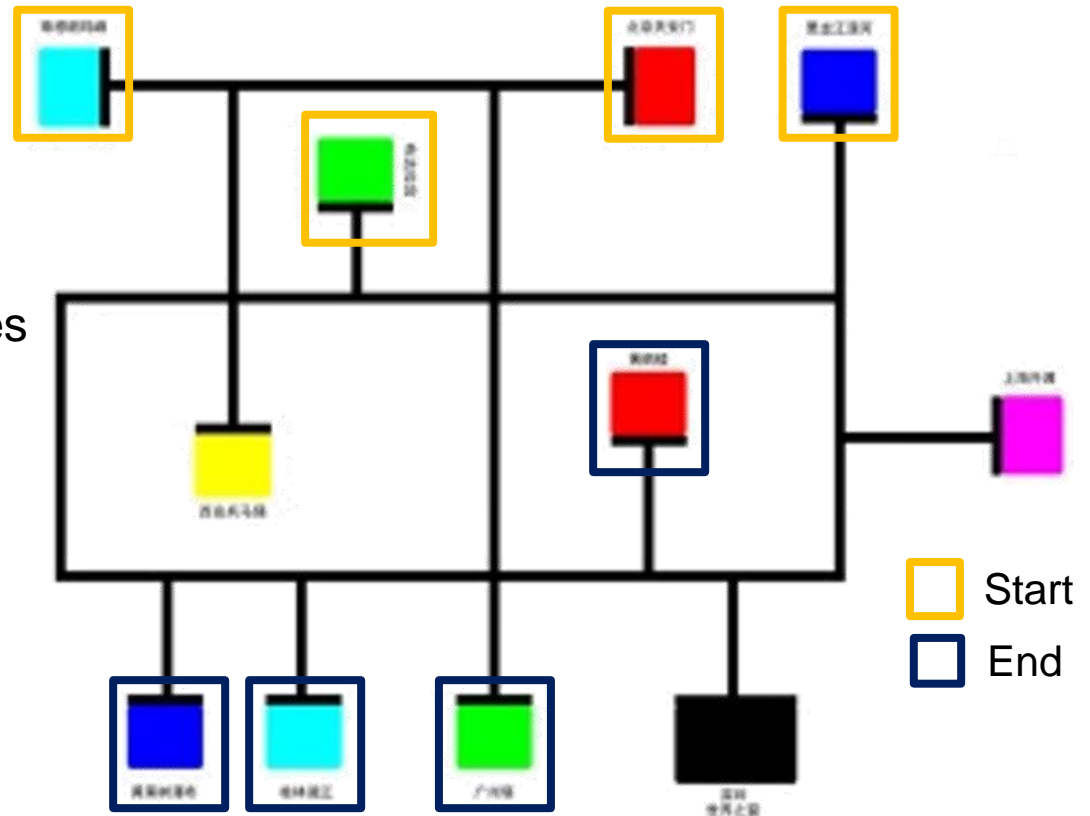
Tasks

- Understand Arduino code structure in general
- Implement missing code based on comments and test for behavior
- Waypoint Tracking (Change way point to realize a U shape)
    - Utilize optical encoder for measurement
    - Define way points to move to several points
- Ultrasonic Explorer (No change needed, test for fun)
    - Check distance continuously to avoid running into walls
    - Implement ultrasonic sensor scanning to find a far away target
- Line Following (Implement direction changing policy in main loop)
    - 4 channel sensor available
    - Multiple flavor of tracking algorithm possible

Project Overview

- 4 routes possible
- Choose randomly
- Go to destination
- Grab the Pokemon
- Team do all 4 routes
- Fastest team wins
- 2 extra trials if fail

Start
End

Thank You!