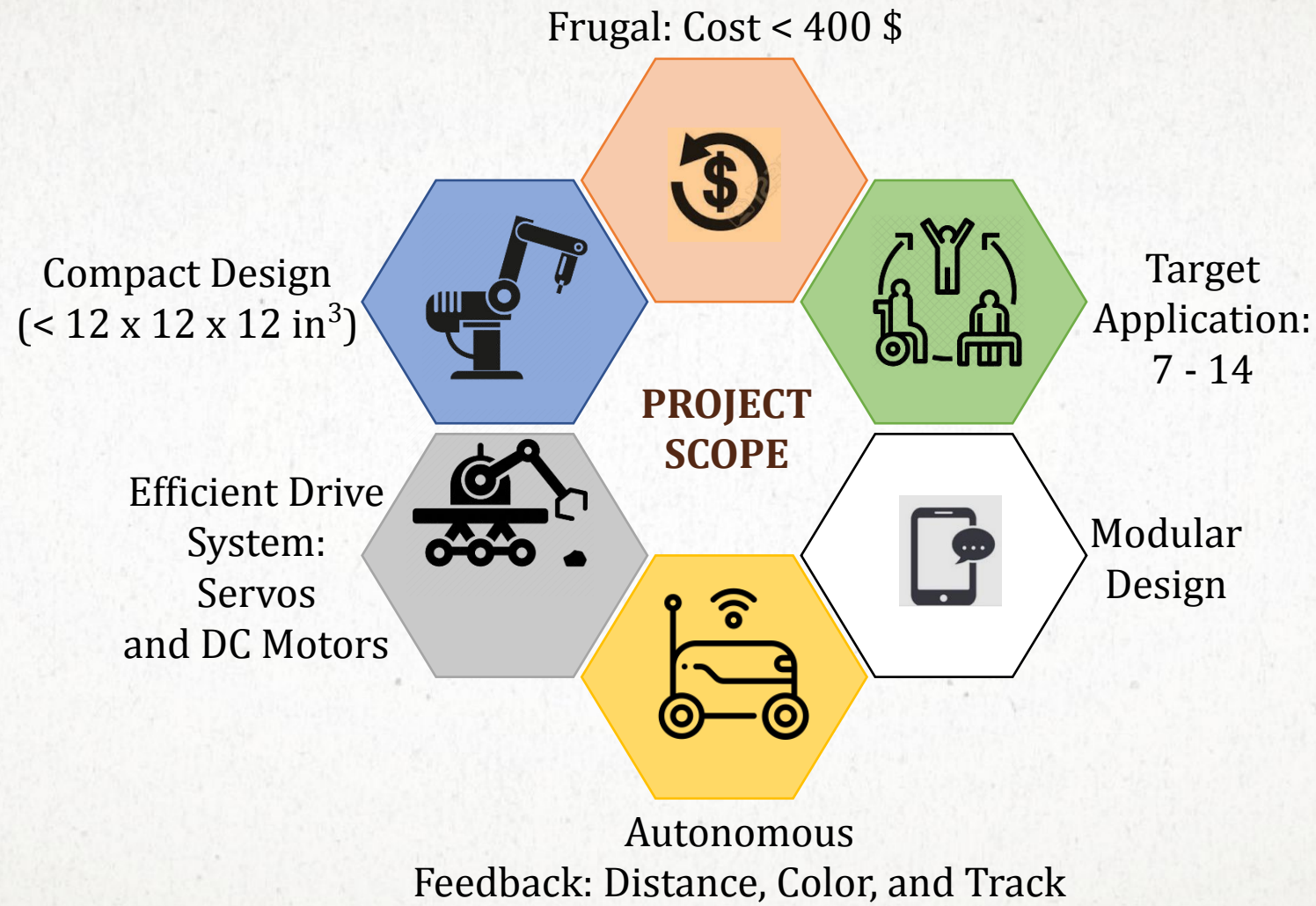
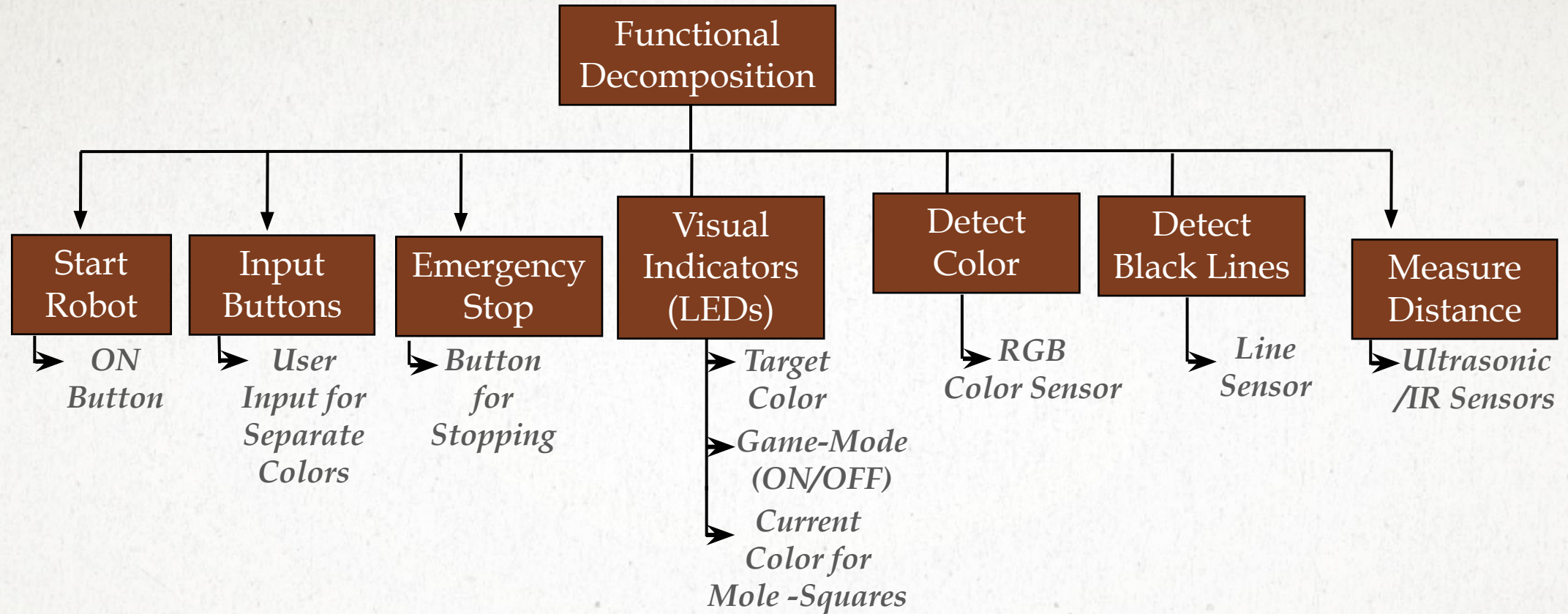


# DESIGN REQUIREMENTS AND CONSTRAINTS

**Objective:** Autonomously search the playing field for the Moles and place Mole—Whackers on those squares

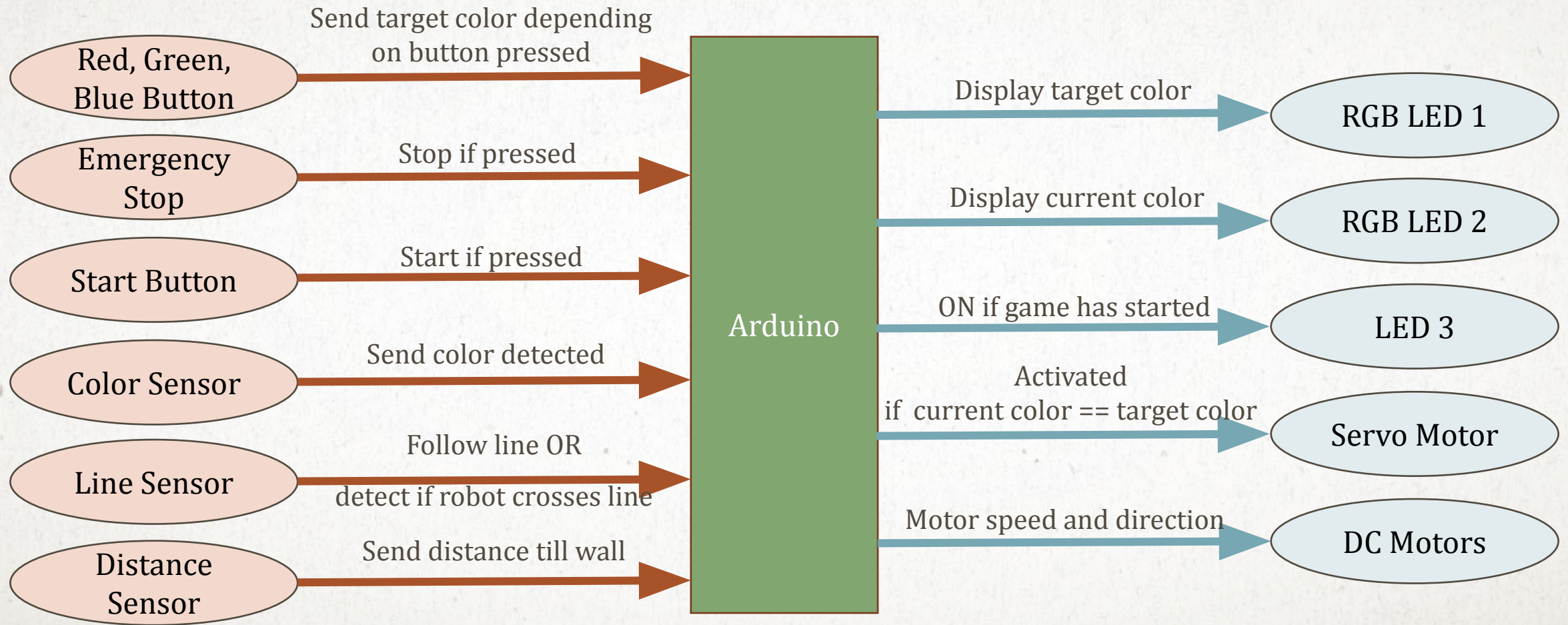


# DESIGN FUNCTIONALITY

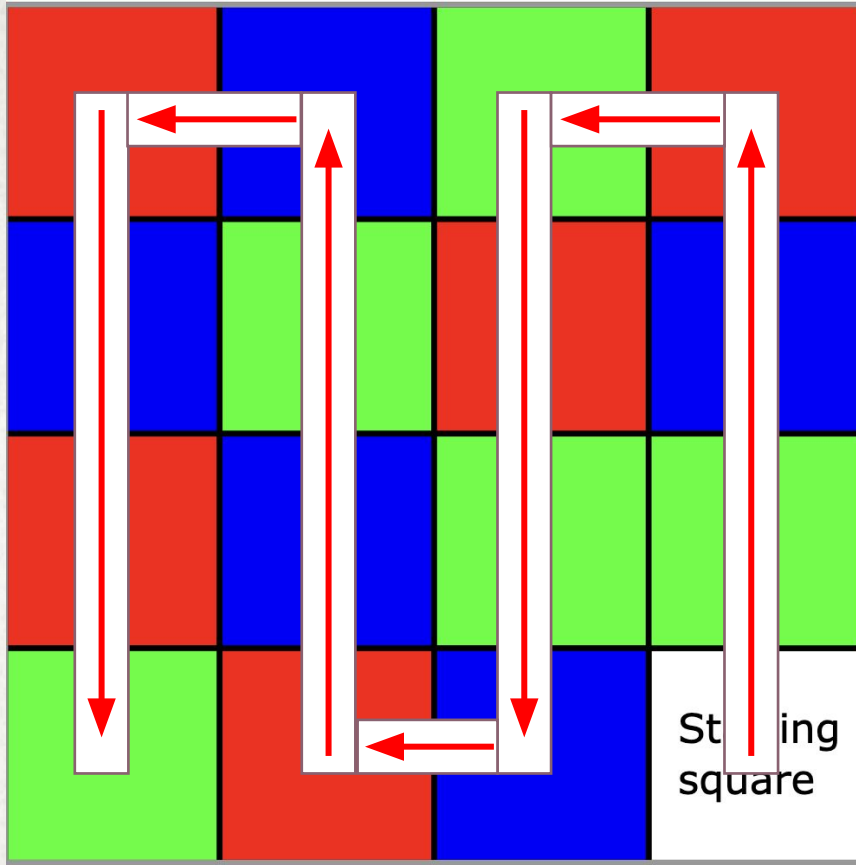




# SYSTEMS ENGINEERING LAYOUT

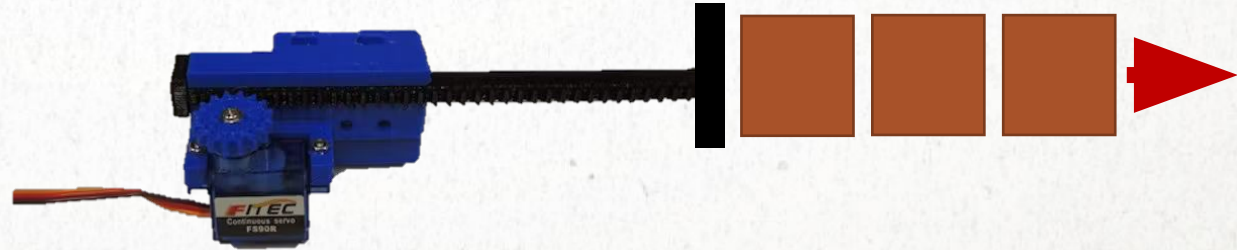


## STRATEGY: EVERY SQUARE METHOD



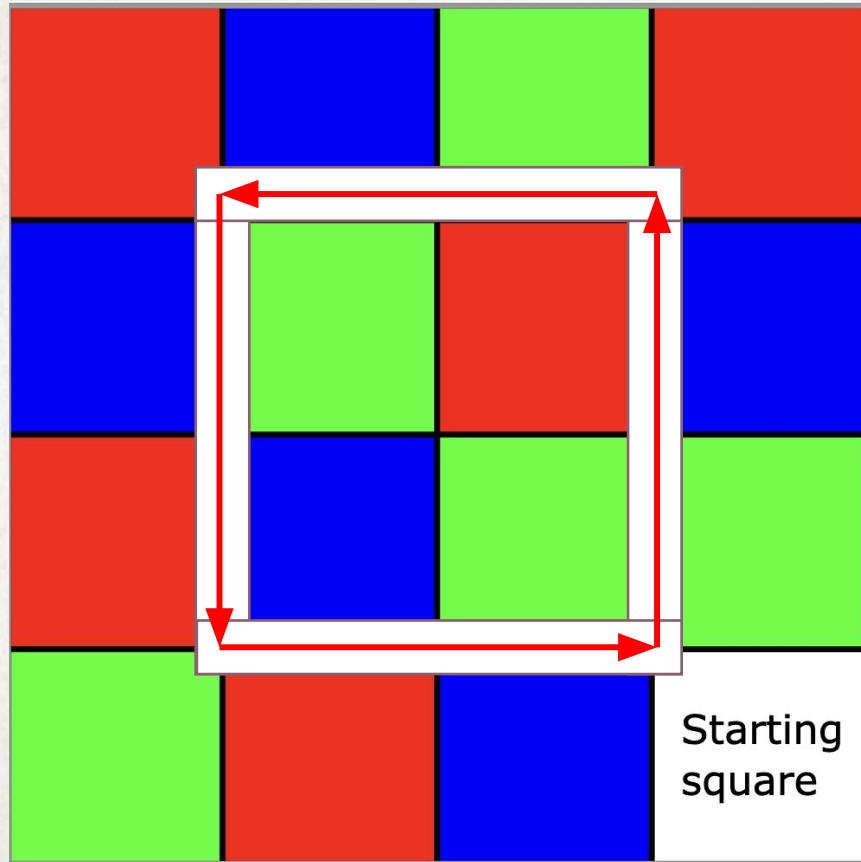
## Every Square Method

- ❑ Robot follows the path given by the arrows to traverse every square
- ❑ Based on the square under the robot: ball is dropped
- ❑ This method might be the easiest to implement but could be slower





# STRATEGY: LINE FOLLOWER METHOD



- Line Follower Method
  - The robot only moves in the white boxes with red arrows
  - There are 2 color sensors to get the color of adjacent sides
  - Balls will be dropped on either side if follows the initial condition
  - This might be the fastest method of dropping the balls

