

## Robot C Program 3: Capstone

Design an attachment to your robot that will pick up the predefined object. BE sure to set the type of motor in the Motor and Sensors Setup menu. NOTE: May apply sensors and timed movements as needed. If it is not specifically listed user may use whatever method to complete the given step.

1. Design a cargo holder that will grab and move a desired object
2. Touch Sensor to Start the Robot
3. Follow Black Line to Pickup Area
4. Sense White Paper
5. Stop > Pause 1.4 Secs
6. Sense and Pick-Up Object (Adjust Robot position as needed)
7. Turn 180 Degrees in shortest Distance
8. Pause 1.6 Secs
9. Drive to End of Table and Sense End of Table
10. Pause 1 Sec
11. Back-Up 1.5 Wheel Rotation (More as needed based on wheel base size) > Turn Right (Towards end of table with cargo)
12. Drive to end of Table > Sense Barrier
13. Pause 1.5 secs
14. Drive to Drop off Area > Sense White Paper
15. Adjust Robot position as needed to place object in Drop-Off Area
16. Back-up without knocking into the cargo
17. Drive back to the Start Point
18. Reposition the Robot in its default state to run the program a second time.

Show teacher when completed