



# RoboBoat 2024 | Autonomy Challenge Observation Sheet

Judge: \_\_\_\_\_

Course: **A** **B** **C**

Weight (lbs): \_\_\_\_\_

Team: \_\_\_\_\_

Date: \_\_\_\_\_

Thrust (lbs): \_\_\_\_\_

Timeslot Start Time: <i>(provided by TD)</i>	Start Time:	Start Time:	Start Time:	Start Time:	Start Time:
Task 1 - Navigation Channel	Run 1	Run 2	Run 3	Run 4	Run 5
Did ASV maneuver through both gates?	Y / N	Y / N	Y / N	Y / N	Y / N

Task 2 - Follow the Path	Run 1	Run 2	Run 3	Run 4	Run 5
Draw path the ASV maneuvers. <i>(Draw in the obstacle buoys striked.)</i>					
Number of buoy strikes.					
Number of gates ASV maneuvers through. <i>(gate = one red buoy and one green buoy)</i>					
Number of gates ASV maneuvers through in one sequence.					
Number of yellow buoy obstacles present on course	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Number of circles ASV completed after exiting pathway	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

Task 3 - Docking	Run 1	Run 2	Run 3	Run 4	Run 5
Did ASV successfully dock in a bay?	Y / N	Y / N	Y / N	Y / N	Y / N
Color of docking bay ASV docks in first attempt?					
Did ASV successfully dock in correct bay on first attempt?	Y / N	Y / N	Y / N	Y / N	Y / N
Did ASV dock in bay for 30 seconds continuously?	Y / N	Y / N	Y / N	Y / N	Y / N
STYLE: Did ASV enter docking bay in an alternate direction? <i>(other than forward, on first attempt)</i>	Y / N	Y / N	Y / N	Y / N	Y / N
STYLE: Did ASV turn in place while staying inside dock? <i>(without leaving the dock)</i>	_____ turns	_____ turns	_____ turns	_____ turns	_____ turns

Task 4 - Duck Wash	Run 1	Run 2	Run 3	Run 4	Run 5
Did ASV shoot water near docking task?	Y / N	Y / N	Y / N	Y / N	Y / N
Did ASV deliver water onto the duck banner?	Y / N	Y / N	Y / N	Y / N	Y / N
How long did ASV deliver steady stream of water on duck banner <i>(in seconds)? (steady stream with respect to aim)</i>	_____ seconds	_____ seconds	_____ seconds	_____ seconds	_____ seconds

Task 5 - Speed Challenge	Run 1	Run 2	Run 3	Run 4	Run 5
Draw path the ASV maneuvers and note buoy strikes.					
Did ASV enter through gate (red and green buoys)?	Y / N	Y / N	Y / N	Y / N	Y / N
Did ASV circle yellow buoy?	Y / N	Y / N	Y / N	Y / N	Y / N
Did ASV circle blue buoy?	Y / N	Y / N	Y / N	Y / N	Y / N
Did ASV exit through the gate (red and green buoys)?	Y / N	Y / N	Y / N	Y / N	Y / N
Did ASV make contact with any buoys?	Y / N	Y / N	Y / N	Y / N	Y / N
Run time, in seconds. (bow to bow)	_____ seconds	_____ seconds	_____ seconds	_____ seconds	_____ seconds

Task 6 - Collection Octagon	Run 1	Run 2	Run 3	Run 4	Run 5
Did ASV make contact with an item (ball or duck)?	Y / N	Y / N	Y / N	Y / N	Y / N
Number of BALLS collected. (removed from octagon)	_____ balls	_____ balls	_____ balls	_____ balls	_____ balls
Number of DUCKS collected. (removed from octagon)	_____ ducks	_____ ducks	_____ ducks	_____ ducks	_____ ducks

Task 7 - Delivery Octagon	Run 1	Run 2	Run 3	Run 4	Run 5
Number of BALLS delivered in each nest.	+	+	+	+	+
Number of DUCKS delivered in each nest.	+	+	+	+	+

Task 8 - Return to Home	Run 1	Run 2	Run 3	Run 4	Run 5
Did ASV return to start of course autonomously? (marked by two black buoys)	Y / N	Y / N	Y / N	Y / N	Y / N
How many tasks were attempted?	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7
End Time:		End Time:		End Time:	

NOTES	Run 1	Run 2	Run 3	Run 4	Run 5