CLAIMS

The invention claimed is:

1. A system, comprising:

a multi-passenger ride vehicle configured to accommodate two or more passengers, wherein the multi-passenger ride vehicle comprises:

a plurality of user input devices each configured to receive input from a passenger of the two or more passengers and to generate feedback in response to input from the respective passenger, wherein the plurality of user input devices comprises:

a first user input device configured to generate first feedback and a second user input device configured to generate second feedback, wherein the first and second feedback comprise a first feedback type associated with a first operation of the multi-passenger ride vehicle; and

a third user input device configured to generate third feedback and a fourth user input device configured to generate fourth feedback, wherein the third and fourth feedback comprise a second feedback type associated with a second operation of the multi-passenger ride vehicle different from the first operation; and

a controller configured to:

receive the first, second, third, and fourth feedback;

control the first operation of the multi-passenger ride vehicle based on a first selection of the first feedback, the second feedback, or both; and

control the second operation of the multi-passenger ride vehicle based on a second selection of the third feedback, the fourth feedback, or both.

2. The system of claim 1, wherein the controller comprises two or more controllers in cooperation.

3. The system of claim 1, wherein the first operation comprises steering of the multi-passenger ride vehicle, and the controller is configured to adjust a position of an axle of the multi-passenger ride vehicle using the first feedback, the second feedback, or both based on the first selection.

4. The system of claim 3, wherein the first user input device and the second user input device each comprise a steering wheel.

5. The system of claim 3, wherein the second operation comprises speed of the multi-passenger ride vehicle, and the controller is configured to control a motor of the multi-passenger ride vehicle or a brake of the multi-passenger ride vehicle using the third feedback, the fourth feedback, or both based on the second selection.

6. The system of claim 1, wherein the second operation comprises interacting with a reward in a ride environment or an obstacle in the ride environment using the third feedback, the fourth feedback, or both based on the second selection.

7. The system of claim 6, wherein the controller is configured to cause display of a virtual reward or a virtual obstacle as appearing in the ride environment based on the second selection of the third feedback, the fourth feedback, or both.

8. The system of claim 7, wherein the controller is configured to cause a projector in the ride environment to display the virtual reward or the virtual obstacle.

9. The system of claim 7, wherein the multi-passenger ride vehicle comprises a display, and the controller is configured to cause the display to display the virtual reward or the virtual obstacle.

10. The system of claim 9, wherein the display comprises a projector, the second selection comprises both the third feedback and the fourth feedback, and the controller is configured to cause the projector to display the virtual reward or the virtual obstacle based on the third feedback and to adjust a position of the projector based on the fourth feedback.

11. The system of claim 7, wherein the multi-passenger ride vehicle comprises a heads-up display, and the controller or a second controller of a second multi-passenger ride vehicle is configured to cause the heads-up display to display the virtual reward or the virtual obstacle.

12. The system of claim 7, comprising a second multi-passenger ride vehicle comprising a heads-up display, and the controller is configured to cause display of the virtual obstacle on the heads-up display.

13. The system of claim 1, wherein the controller is configured to determine a first score for the first feedback and a second score for the second feedback and to determine the first selection based on

the first score and the second score.

14. A multi-passenger ride vehicle comprising:

a first user input device configured to generate first feedback based on input from a first passenger of the multi-passenger ride vehicle;

a second user input device configured to generate second feedback based on input from a second passenger of the multi-passenger ride vehicle; and

a controller configured to:

receive the first and second feedback;

select the first feedback, the second feedback, or both for a determination of a vehicle path; determine the vehicle path using the first feedback, the second feedback, or both based on the selection; and

control movement of the multi-passenger ride vehicle based on the vehicle path.

15. The multi-passenger ride vehicle of claim 14, wherein the controller is configured to control a position of an axle of the multi-passenger ride vehicle, a motor of the multi-passenger ride vehicle, a brake of the multi-passenger ride vehicle, or a combination thereof to control the movement.

16. The multi-passenger ride vehicle of claim 14, wherein the first user input device comprises a first steering wheel, the second user input device comprises a second steering wheel, and the controller is configured to select the first feedback, the second feedback, or both to determine a direction of the vehicle path.

17. The multi-passenger ride vehicle of claim 16, comprising:

a first gas pedal configured to generate third feedback based on input from the first passenger; a second gas pedal configured to generate fourth feedback based on input from the second passenger;

a first brake pedal configured to generate fifth feedback based on input from the first passenger; and

a second brake pedal configured to generate sixth feedback based on input from the second passenger; wherein the controller is configured to select the third feedback, fourth feedback,

fifth feedback, sixth feedback, or a combination thereof to determine a speed of the vehicle path.

18. The multi-passenger ride vehicle of claim 14, wherein the controller is configured to:

analyze the first feedback to determine a first score for the first passenger;

analyze the second feedback to determine a second score for the second passenger; and

select the first feedback, the second feedback, or both based on the first and second scores.

19. The multi-passenger ride vehicle of claim 18, wherein the controller is configured to compare the first feedback and the second feedback to a predetermined ideal vehicle path to determine the first score and the second score, respectively.

20. The multi-passenger ride vehicle of claim 18, wherein the controller is configured to:

weight the first feedback based on the first score to determine a first weighted feedback; weight the second feedback based on the second score to determine a second weighted feedback;

combine the first weighted feedback and the second weighted feedback to determine combined feedback; and

determine the vehicle path based on the combined feedback.

21. The multi-passenger ride vehicle of claim 18, wherein the controller is configured to select the first feedback when the first score is greater than the second score and to select the second feedback when the second score is greater than the first score.

22. The multi-passenger ride vehicle of claim 14, comprising: a first indicator disposed proximate to the first user input device; a second indicator disposed proximate to the second user input device; wherein the controller is configured to activate the first indicator when the controller selects the first feedback and to activate the second indicator when the controller selects the second feedback.

23. The multi-passenger ride vehicle of claim 22, wherein the first and second indicators each comprises a display, a light, an audio annunciator, or a combination thereof.

24. The multi-passenger ride vehicle of claim 14, comprising: a third user input device configured to generate third feedback based on input from a third passenger of the multi-passenger ride vehicle;

and a projector configured to display one or more projections in a ride environment; wherein the controller is configured to cause the projector to display a projection of the one or more projections based on the third feedback.

25. The multi-passenger ride vehicle of claim 24, comprising a fourth user input device configured to generate fourth feedback based on input from the third passenger of the multi-passenger ride vehicle, wherein the one or more projections comprise a reward projection and an obstacle projection, and the controller is configured to cause the projector to display the reward projection based on the third feedback and the obstacle projection based on the fourth feedback.

26. A method, comprising:

receiving, via a controller, first steering feedback from a first user input device of a multi-passenger ride vehicle in response to input from a first passenger of the multi-passenger ride vehicle;

receiving, via the controller, first speed feedback from a second user input device of the multi-passenger ride vehicle in response to input from a second passenger of the multi-passenger ride vehicle;

determining, via the controller, a vehicle path, wherein determining the vehicle path comprises determining a direction of the vehicle path based on the first steering feedback and

determining a speed of the vehicle path based on the second speed feedback; and controlling, via the controller, movement of multi-passenger ride vehicle based on the vehicle path.

27. The method of claim 26, comprising:

receiving, via the controller, second steering feedback from a third user input device of the multi-passenger ride vehicle in response to input from the second passenger of the multi-passenger ride vehicle; and

receiving, via the controller, second speed feedback from a fourth user input device of the multi-passenger ride vehicle in response to input from the first passenger of the multi-passenger ride vehicle.

28. The method of claim 27, comprising: determining, via the controller the direction of the vehicle path based on the first steering feedback and the second steering feedback, wherein the first steering feedback and the second steering feedback are received simultaneously; determining, via the controller, the speed of the vehicle path based on the first speed feedback and the second speed

feedback, wherein the first speed feedback and the second speed feedback are received simultaneously.

29. The system of claim 1, wherein the first user input device, the second user input device, the third user input device, and the fourth user input device each comprise a steering wheel, a joystick, a gas pedal, a button, a lever, a switch, or a touch-screen display.

30. The multi-passenger ride vehicle of claim 14, wherein the first user input device, the second user input device, the third user input device, and the fourth user input device each comprise a steering wheel, a joystick, a gas pedal, a button, a lever, a switch, or a touch-screen display.