CLAIMS:

1. A ride system, comprising:

a vehicle configured to travel along a first ride path defined by a first track; and

a coaster configured to travel along a second ride path defined by second track, wherein the first track and second track cross one another ~~and configured to overlap with the first ride path~~ at an overlapping portion of the ride system, wherein the vehicle is configured to disengage from a first portion of the first ride track ~~path~~ and engage with the coaster when the coaster and the vehicle are ~~is~~ positioned at the overlapping portion, wherein the coaster is configured to transport the vehicle along the second ride path to a second portion of the first ride path after engaging with the vehicle.

2. The ride system of claim 1, wherein the first ride path comprises a ride path section extending from the first portion of the first ride path to the second portion of the first ride path, wherein the ride path section is separate from the second ride path.

3. The ride system of claim 1, comprising a vehicle securing mechanism of the vehicle, wherein the vehicle securing mechanism is configured to confine motion of the vehicle to the first ride path in an engaged configuration of the vehicle securing mechanism.

4. The ride system of claim 3, wherein the vehicle securing mechanism is configured to permit the vehicle to disengage from the first ride path in a disengaged configuration.

5. The ride system of claim 1, wherein the coaster is positioned under a surface comprising the first track except ~~configured to be hidden from view of a passenger of the vehicle~~ when the coaster and the vehicle are positioned at the overlapping portion of the ride system.

6. The ride system of claim 1, wherein the coaster comprises a coaster securing mechanism configured to selectively secure the vehicle to the coaster.

7. The ride system of claim 1, wherein the coaster comprises a coaster securing mechanism, and the vehicle comprises a vehicle securing mechanism, wherein the coaster securing mechanism and the vehicle securing mechanism are configured to engage with one another in a male and female securing configuration in an engaged configuration.

8. The ride system of claim 1, wherein the first portion of the first ride path and the second portion of the first ride path are positioned at different vertical locations of the ride system, and wherein the coaster is configured to vertically transport the vehicle along the second ride path from the first portion to the second portion.

9. The ride system of claim 8, wherein the second ride path comprises a segment oriented along a gravity vector.

10. The ride system of claim 1, wherein the second ride path extends beneath the first portion of the first ride path at the overlapping portion, such that a top of the coaster is configured to directly couple with a chassis of the vehicle at the overlapping portion.

11. The ride system of claim 1, wherein the ~~first ride path comprises a~~ first track is oriented along and define~~sing~~ a direction of travel for the vehicle, wherein the first track is configured to rotate to transport the vehicle to the coaster.

12. A method for controlling multi-dimensional motion of a vehicle, comprising:

instructing, via a controller, the vehicle traveling along a first ride path defined by

a first track to stop the vehicle at a first position along the first ride path;

instructing, via the controller, a coaster traveling along a second ride path defined by a second track to stop at a second position along the second ride path,

wherein the first position and the second position overlap with one another;

controlling actuation, via the controller, of one or more securing mechanisms to release the vehicle from the first track at the first position and to secure the vehicle to the coaster; and

instructing, via the controller, the coaster to travel along the second ride path defined by the second track to a third position along the second ride path and to stop at the third position, wherein the third position overlaps with the first ride path.

13. The method of claim 12, comprising controlling actuation, via the controller, of the one or more securing mechanisms to release the vehicle from the coaster and to engage the vehicle with the first track when the coaster is at the third position.

14. The method of claim 12, wherein actuating the one or more securing mechanisms to release the vehicle from the first track at the first position and to secure the vehicle to the coaster comprises:

controlling actuation, via the controller, of a coaster securing mechanism to secure the vehicle to the coaster; and

controlling actuation, via the controller, of a vehicle securing mechanism to release the vehicle from the first track at the first position.

15. The method of claim 12, wherein the third position overlaps with a fourth position along the first ride path, and wherein instructing, via the controller, the coaster to travel along the second ride path defined by the second track to the third position along the second ride path comprises bypassing, with the vehicle, a section of the first ride path defined by the first track extending between the first position and the fourth position.

16. The method of claim 12, further comprising:

tracking, via the controller, multi-dimensional motion of the vehicle along the first ride path to collect feedback indicative of a position, a velocity, an acceleration, or any combination thereof, of the vehicle; and

instructing, via the controller, the coaster traveling along the second ride

path defined by the second track to stop at the second position along the second ride path based on the feedback.

17. A ride system-, comprising:

a first ride path defined by a first track and configured to guide a ride vehicle along the first ride path;

a second ride path defined by a second track and configured to guide a coaster along the second ride path, wherein the first ride path and the second ride path overlap with one another at a plurality of overlapping portions; and

a controller comprising a processor and a memory device having instructions stored thereon, wherein the instructions are configured to be executed by the processor, and wherein the instructions are configured to cause the processor to:

output a first signal to stop the ride vehicle at a first position along the first ride path, wherein the first position is at a first overlapping portion of the plurality of overlapping portions;

output a second signal to stop the coaster at a second position along the second ride path, wherein the second position is at the first overlapping portion of the plurality of overlapping portions;

output a third signal to actuate one or more securing mechanisms to release the ride vehicle from the first track at the first overlapping portion and to secure the ride vehicle to the coaster; and

output a fourth signal to actuate the coaster to travel along the second ride path via the second track to a second overlapping portion of the plurality of overlapping portions.

18. The ride system of claim 17, wherein the instructions are configured to cause the processor to instruct the one or more securing mechanisms to release the ride vehicle from the coaster and to secure the ride vehicle to the first track at the second overlapping portion of the plurality of overlapping portions.

19. The ride system of claim 17, wherein the instructions are configured to output a fifth signal to accelerate the ride vehicle along the first ride path in response to a verification that the one or more securing mechanisms released the ride vehicle from the coaster and secured the ride vehicle to the first track at the second overlapping portion.

20. The ride system of claim 17, wherein the first ride path defined by the first track comprises a first segment extending between the first overlapping portion of the plurality of overlapping portions and the second overlapping portion of the plurality of overlapping portions, and wherein the second ride path defined by the second track comprises a second segment extending between the first overlapping portion of the plurality of overlapping portions and the second overlapping portion of the plurality of overlapping portions.