

Assignment 3: STATE MACHINE DIAGRAM

Engineers had to be creative in order to add all the functionality needed for a lunar cruise, so they came up with the following ideas:

- When the left pedal is pressed once it accelerates the buggy forward.
- If accelerate forward and you press the right pedal once, it deaccelerates.
- To achieve constant forward speed press the right pedal for more than 3 seconds.
- If the buggy is at rest and the left pedal is pressed for more than 3 seconds, it will accelerate backward

Part 1

1. Design a state machine to model the Movement Control as described above.

Note: The description above is not complete. Your task includes filling in these missing details. Make sure to write down any assumptions you make as you develop the state machine model.

