Presentation Script

# Initial

1. Adjust Pot value, headlights doesn’t turn on as engine is off

# Testing interior lights

1. With engine off initially
   1. Scenario 1
      1. Pot value above 512 and open door, no lights turned on. Doors closed with no effects
   2. Scenario 2
      1. Open Door, if pot value is below a threshold (512), internal lights turn on and remain on for 20 seconds before turning off.
      2. Door close, lights turn on for 10 seconds and dims off in approx. 5 seconds.
   3. Scenario 3
      1. Open Door, close within the 20 sec interval, lights remain on for 10 seconds and dims off in approx. 5 seconds.
   4. Scenario 4
      1. Open Door, if pot value is below a threshold (512), internal lights turn on and remain on for 20 seconds.
      2. Engine on, interior lights will turn off and alarm will start.

# Testing Engine Start / Headlights

1. Scenario 1
   1. Engine cannot start with slider being at any value of acceleration
   2. Start Engine (mention about the mutex) with door closed, headlights turn on when the pot value is below 512.
   3. Increase the pot value, dimming of lights occurs

# Testing Speed

1. Push slider to maximum, speed will increase till maximum acceleration (approx. 170).
2. Door cannot be open during movement (speed > 0). Similarly, engine cannot be turned off as well.
3. Brake until 100, speed will increase back to 170.
4. Brake until 100, decrease slider to halfway position, speed will be at 100plus
5. Put slider down to zero, deceleration occurs
6. Door can be opened when speed is zero.