

Team NightWalkers (B)

SVD Test

1. Demo Name: Human Detection Test
 - a. Relevant Requirements: RPM-4
 - b. Location: MRSD Lab, Level B
 - c. Equipment:
 - i. Unitree robot hardware
 - ii. Joystick controller
 - iii. Laptop
 - d. Personnel: Saha
 - e. Procedure:
 - i. Turn on the robot and make sure all components function properly
 - ii. Use the joystick controller to make sure the robot is controllable and able to move forward/backward/sideward
 - iii. Walk the robot past three static humans with varying levels of occlusion
 - f. Verification Criteria:
 - i. All human shapes are recognized

2. Demo Name: Footstep Planning Test
 - a. Relevant Requirements: RPM-3
 - b. Location: MRSD Lab, Level B
 - c. Equipment:
 - i. Unitree robot hardware
 - ii. Joystick controller
 - iii. Laptop
 - d. Personnel: Saha
 - e. Procedure:
 - i. Turn on the robot and make sure all components function properly
 - ii. Use the joystick controller to make sure the robot is controllable and able to move forward/backward/sideward
 - iii. Give joystick commands for the direction in that the robot must move
 - f. Verification Criteria:
 - i. The robot can recognize the obstacle and climb it effectively