

Team NightWalkers (B)

FVD Test

1. Demo Name: Planning Test
 - a. Relevant Requirements: RPM-2
 - b. Location: MRSD Lab, Level B
 - c. Equipment:
 - i. Unitree robot hardware
 - ii. AirLab's sensor payload
 - iii. Joystick controller
 - iv. 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. Use the laptop to send commands to the robot to start mapping mode
 - iv. Give the robot 5 waypoints so that the planner finds a trajectory through them
 - f. Verification Criteria:
 - i. The robot is able to plan between waypoints

2. Demo Name: Exploration Test
 - a. Relevant Requirements: RPM-2 and 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 the robot signal to begin demonstration
 - f. Verification Criteria:
 - i. The robot can explore and build the map of the MRSD Lab