RMIT UNIVERSITY	**Autonomous Systems – MANU2480 – 2023A** **Practical Assessment 2** **Type: Individual**
Total Mark	**Total Mark: 20 points (20% of Total Marking)** **Submission: On Canvas and via email** **Deadline: 11.00 AM on Wednesday, May 31st, 2023**

Important Note for Submission:

- The answers for all lab sections in Problem 1 must be included in the same main document and saved in pdf format. Please save your pdf file, MATLAB files and other related files into one folder; then zip the folder and submit the zip file on Canvas before the deadline.
- If your team or any students engaging in the Problem 2 for optional task related to Jetbot, please send me an email with the attachment of your project description. All members participating in this project should be included in the email sent to the lecturer. The video recording should be saved in a drive and attach the shared link in the document.

Problem 1

Please answer the questions provided in each lab document.

It is noted that in your main document for submission, in each lab, you do not need to write down your works as a report but as a form of question and answer. For example, the questions are extracted from the lab documents or this assessment paper and then follow up with your answers.

Please support your answer with any data presented as the graphs, figures, tables resulted from your lab works.

Problem 2 (optional)

Given the Nvidia Jetbot platform, please come up with a design project for an autonomous task completed by this mobile robot. You can simply follow provided examples on the Internet or program a new application. Please note that:

1. If your team simply follow a given tutorial or mainly use provided codes, please briefly address the knowledge learnt during Autonomous System course with respect to your works.
2. If the project is developed fundamentally by your team (ideas, coding, etc) please briefly explain your technical works in addition to the illustration on how this project fit well to what we have learnt in the Autonomous System course.

The submission for this problem includes a main document (max 2 pages) with the attached link for video demonstration (max 5 mins).