School of Informatics & IT

**Diploma in Applied Artificial Intelligence**

AY2023 Semester Level 3

**MP Weekly Project Progress Report**

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| **Project Title: Nvidia TX Autonomous Vehicle** | |
| **Student Name: Maximilian See Tze Jie** | **Adm No: 2102869A** |
| **Supervisor Name: Mr Tan Sio Poh** | **Week No: 8** |

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|  | **Tasks Completed** |  |  |  |  |  |
|  | Rolled back both systems to ubuntu 18.04 |  |  |  |  |  |
|  | Set Up of Network |  |  |  |  |  |
|  | Flashing the Arduino and getting the Arduino cable (USB-B) |  |  |  |  |  |
|  | Compilation of most packages and libraries |  |  |  |  |  |
|  | Got the robot working |  |  |  |  |  |
|  | Nvidia drivers were not installed (Do not need) |  |  |  |  |  |
|  | Created and Tested RL (Reinforcement Learning) on the robot -> Poorer performance than Ryu’s CNN (Convolutional Neural Networks)  The robot has been fixed |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **Issue/Risk Tracking** |  |  |  |  |  |
|  | Issue/Risk Name |  | Status | | |  |
|  |  |  | Not Done | | |  |
|  | Installtion of AWS CLI and Cronjob implementaiton |  |  | | |  |
|  | Configuring the image recognition model to work with movement signs from the AI Centre (see traffic sign -> turn left). There is some refining to be done |  | Partially Done | | |  |
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|  | **Meeting minutes with MP supervisor** | | | | |  |
|  | This week Ryu and i decided to focus on the report due to the robot under service for half the week. There were news on the completion of the robot but some of us could not make it this week to further work on the robot. | | | | |  |
|  | The report is about 45 % Complete and requires a review | | | | |  |
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|  | **Weekly Self-Reflection** *(no more than 150 words)*  This week focuses more on the reflections as we come closer to the end of our project. There is still one improvement plan I have yet to carry out and thats the implementation of the cloud service. The code which will record the data would be written in C++ and would be sent to AWS by System Cronjob in .avi format to save space and bandwidth. | | | | |  |
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