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** | |
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| **Supervisor Name: Mr Tan Sio Poh** | **Week No: 4** |

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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 |  |  |  |  |  |
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|  | **Issue/Risk Tracking** |  |  |  |  |  |
|  | Issue/Risk Name |  | Status | | |  |
|  | Seems to be lacking the Nvidia Drivers, but can be downloaded, For GPU acceleration, On the plus side we got 8.4GB space up from 500 Mb. |  | Set up Nvidia Drivers: Not Done | | |  |
|  | Biggest issue now is the libraries, they keep throwing errors and lack of dependencies. This is mostly slowing the process |  |  | | |  |
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|  | **Meeting minutes with MP supervisor** | | | | |  |
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|  | **Weekly Self-Reflection** *(no more than 150 words)*  Limited progress this week also, but we are closer. To get the robot working on the newer bot all we must do now is manage the dependencies and what is missing. If this is successful, then we consider the addition of Nvidia Drivers for GPU acceleration. GPU acceleration is not implemented in the first place because I was still unfamiliar with what errors the robot might run into when setting it up. Secondly there was the fear of not having enough space to cater to the other package libraries. Thus, GPU acceleration will not be set up till all packages are compiled and the robot show some semblance of working order. After today we should be able to set up the robot if all goes well on the reflash today. | | | | |  |
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