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| cid:image001.jpg@01D3E1F2.B4A565F0 | Supervision Meeting Notes  |  |  |  |  | | --- | --- | --- | --- | | Taught |  | Research |  | |

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| Student Name | Marios Anastasopoulos | | | | | |
| Student Number | 399980 | | | | | |
| Course | MSc Astronautics and Space Engineering | | | | | |
| Supervisor | Dr. Nicola Garzaniti | | | | | |
| Date of Meeting | 15/6/2023 | | | | | |
| Meeting by | In person |  | Telephone |  | Skype / Webconferencing |  |

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| Decisions / Actions agreed and by whom |
| Subject: Status check  Venue: MS Team  Participants Dr Nicola Garzaniti (CRA)  Mr Marios Anastasopoulos (CRA)  Reviewed the results of models with different architectures. Added hidden layers and re-performed the hyperparameter optimization.  Additionally, tried normalizing to the maximum allowed value for the reaction wheels and the results seem to be better, there is no upper limit in the predictions. Moreover, the plot of the RMSE shows that more epochs could be used.  However, the main problem is that the losses and the RMSE drop very fast, even from the 1st or 2nd epoch. This is an issue that needs to be resolved.  A suggestion is to go a step back and examine how we can manipulate the data or experiment with different input windows. So far have been using 24h measurements to predict the next hour. Try with different size windows (12h, 48h, 72h etc.).  *Actions for the next meeting*   * Experiment with different input window size * Try manipulating the input data * Review the structure of the code to make sure that’s not the root of the issue * Start working on the main text of the thesis |
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| Date of next meeting |
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| 23/6/2023 |