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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 | 23/6/2023 | | | | | |
| 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 stacked LSTM layers. The predictions are good on the peak values that we are mostly interested in, in order to predict when the desaturation of the wheels is needed and to produce the ticket. There might be a limitation to the model in the middle and lower values, but this could be fixed either with additional LSTM layers, or a different type of layer such as the Bidirectional LSTM layer.  Discussed how the ticket is going to be produced, from a perspective of a block diagram. Set a threshold and scan the predictions to check if this threshold is being reached. Also a suggestion is to study one report from Hellas Sat about the operation of wheel unloading. Start working on the ticket production in parallel with finalizing the model for the predictions.  Discussed the structure of the thesis: 1) Introduction: introduce the problem and explain why you're doing what you are doing and what are the research question. The aim, the objective, the structure of the thesis. 2) Literature review: background information, what has been done in the field? How is the problem tackled today? Some information about the satellite subsystems that are relevant to the problem 3) Methodology 4) Results: could compare the way I solved the problem with the traditional solution and explain why my way is better( Verification & Validation) 5) Conclusion : summarize what I have done, the contribution, acknowledge the limitations, future work  *Actions for the next meeting*   * Try adding additional layers to improve the middle and low values on the predictions * Get a report from Hellas Sat of a wheel unloading manoeuvre * Start working in the ticket production |
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| Date of next meeting |
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| 30/6/2023 |