CS490 – Autonomous Vehicle Design

Engineering Notes No. 4.1

INFORMATION

NAME: Davian Rosario-Ortiz

DATE: 10/29/2024 - 11/04/2024

Sprint: 4

JIRA BACKLOG

Responsible for:

- Complete Section 4 of SRS document
- Complete Section 5 of SRS document

Contributed to:

- Complete SDD following the same breakdown as the SRS
- Determine Goals with Acclivis
- Determine meeting times and frequency with Acclivis

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RESOURCES & DOCUMENTS CONTRIBUTED TO

Table 1 - Contributions

Date	Resource/Document	Location	Contribution Description
10/29/2024	SRS Document	One Drive	Completed Sections 4, 5, and contributed to Section 8

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COMPONENTS TESTED

Table 2 - Testing

Date Tested	Component	Result	Comments
10/29/2024	PolyVerif on Ubuntu 20.02	Partially Working	Reverted to an older OS after PolyVerif stopped functioning.
10/30/2024	Docker & Nvidia Drivers	Errors resolved	Reinstalled drivers with assistance from Jackson Baker
10/31/2024	Python Package compatibility	Ongoing issues	Investigating version mismatches in sub release packages.

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PROBLEMS SOLVED

Table 3 - Solutions

Date	Problem	Solution & Notes
10/29/2024	PolyVerif stopped functioning	Reverted to Ubuntu 20.02 and reinstalled Docker and Nvidia drivers
10/30/2024	Errors with Pip installation of modules	Used –no-cache-dir flag to address installation issues

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PROBLEMS TO ADDRESS NEXT

Table 4 – Future Problems

Problem	Description
Need to resolve software issues.	Investigate continued issues with PolyVerif and LGSVL errors.
Need to resolve package-related issues.	Confirm Pyhton sub release compatibility to resolve package-related issues.
Need to finish environment creation guides.	Finalize environment creation guide and complete a basic simulation with logging capabilities.

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MEETING NARRATIVE NOTES:

Table 5 – Meeting 1

10/29/2024	Meeting Type: In-Class
Met with Product Owner(s): Y	
Problems Brought Up:	
Problem	**Proposed Solution**
Need to work on SRS.	Continued work on SRS, I personally worked on Sections 4 & 5, and contributed to Section 8.
Other Items Updated on:	
N/A	
Additional Notes:	
Nothing else to note.	

Table 6 – Meeting 2

10/31/2024	Meeting Type: In-Class
Met with Product Owner(s): Y	
Problems Brought Up:	
Problem	**Proposed Solution**
Continued PolyVerif issues, and LGSVL issues	Investigating if computer hardware or software configuration is causing errors.
Other Items Updated on:	
N/A	
Additional Notes:	
Progress made on SRS and environment creation, though technical setbacks with PolyVerif and LGSVL are ongoing.	

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NOTES:

Nothing else to note.