CS491 – Autonomous Vehicle Design

Engineering Notes No. 10.1

INFORMATION

NAME: Davian Rosario-Ortiz

DATE: 02/19/25 - 02/25/25

Sprint: 10

JIRA BACKLOG

Responsible for:

- Organizing and uploading Engineering Notes to GitHub.
- Supporting debugging effort for PolyVerif.
- Reviewing and modifying the design document to reflect new AI direction.
- Preparing for final SDS submission due on 03/06/2025'
- Reviewing annotated SDD v.1 for required edits.

Contributed to:

- Meeting discussions on shifting project direction.
- Documentation organization for team deliverables.
- Planning and outlining NeuroEvolution approach.
- Clarifying SDS vs. SDD requirements with Clay.

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RESOURCES & DOCUMENTS CONTRIBUTED TO

Table 1 - Contributions

Date	Resource/Document	Location	Contribution Description
02/20/2025	Engineering Notes Repo	GitHub	Organized and uploaded documents.
02/21/2025	Design Document	One Drive	Began edits to align with AI-focused project scope.
02/21/2025	SDD annotations	One Drive	Reviewed annotated versions for necessary changes.
02/23/2025	NeuroEvolution Reading	One Drive	Read related chapter from "The Nature of Code".

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COMPONENTS TESTED

Table 2 - Testing

Date Tested	Component	Result	Comments
02/20/2025	PolyVerif	Still Broken	Debugging ongoing, issues remain unresolved.

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PROBLEMS SOLVED

Table 3 - Solutions

Date	Problem	Solution & Notes
02/20/2025	Engineering Notes disorganized	Organized GitHub directory for easier navigation

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PROBLEMS TO ADDRESS NEXT

Table 4 – Future Problems

Problem	Description
AI System Implementation	Began structured development of the NeuroEvolution AI logic.
Design Document Updates	Complete edits to reflect AI-based project scope.
Final SDS Prep	Confirm format and content; finalize submission by 03/06/2025.

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MEETING NARRATIVE NOTES:

Table 5 – Meeting 1

02/20/2025	Meeting Type: In-Class (MP 224)
Met with Product Owner(s): N	
Problems Brought Up:	
Problem	**Proposed Solution**
PolyVerif Debugging Issues	Continued troubleshooting
Engineering Notes workflow	Organized GitHub repo
Other Items Updated on:	
None	
Additional Notes:	
None	

Table 6 – Meeting 2

02/25/2025	Meeting Type: In-Class (LB 374)
Met with Product Owner(s): Y	
Problems Brought Up:	
Problem	**Proposed Solution**
Uncertainty in project direction.	Shifted focus to NeuroEvolution AI implementation.
SDS vs. SDD clarification needed	Will ask Clay for clarification.
Other Items Updated on:	
Began edits to design document based on SDD v.1 annotations.	
Additional Notes:	
Focusing efforts on building a functional AI model moving forward.	

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NOTES: