

Engineering Notes No. 0

INFORMATITON

NAME: Davian Rosario-Ortiz

DATE: 08/27/2024 - 09/16/2024

Sprint: 0

JIRA BACKLOG

Responsible for:

- Not applicable

Contributed to:

- Not applicable

RESOURCES & DOCUMENTS CONTRIBUTED TO

Table 1 - Contributions

Date	Resource/Document	Location	Contribution Description
09/12/2024	Group chat message	Discord	Gathered student ID numbers for access to LB 370 (IEEE Special Projects Lab). Also shared my schedule to help with scheduling.

COMPONENTS TESTED

Table 2 - Testing

Date Tested	Component	Result	Comments
Not Applicable	Not Applicable	Not Applicable	Not Applicable

PROBLEMS SOLVED

Table 3 - Solutions

Date	Problem	Solution & Notes
09/12/2024	Need to begin Sprint 1.	Began creating a backlog of tasks and items using Jira and setting up the GitHub.
09/12/2024	Need to establish meeting times.	Using When2Meet, determined the best times to meet up outside of class. Settled on Tuesday/Thursday starting at 8:30 pm.
09/12/2024	Need to get a brief understanding of the project and the simulation software being used (PolyVerif).	Read the documentation: -PolyVerif: An Open-Source Environment for Autonomous Vehicle Validation and Verification Research Acceleration. -PolyFlows: Modular Test Framework Design for Autonomous Vehicles.
09/12/2024	Need necessary hardware to be able to run PolyVerif's Simulation Suite, which requires a Graphics Processing Unit (GPU).	Dr. Akbas has a computer in the MicaPlex (MP 224 - WiDE Lab) that is capable of the needed software.

PROBLEMS TO ADDRESS NEXT

Table 4 - Future Problems

Problem	Description
Need to establish the project's scope and write up our project proposal document.	Talk to Dr. Akbas to get a better understanding of what needs to be done or more so what he wants/expects of us to accomplish. This will be used to write up a project proposal document that is to be submitted as a graded assignment.
Need to gain access to the MicaPlex.	Get access to MP 224 to be able to use Dr. Akbas' computer, as well as get parking passes for the MicaPlex.
Need to learn how to use PolyVerif, along with Scenic and SUMO	Scenic is a language for scenario specification and scene generation while SUMO is the Simulation of Urban Mobility, both of which help with PolyVerif's Simulation Suite. This is essential to getting an testing done.

MEETING NARRATIVE NOTES:

Table 5 - Meeting 1

09/10/2024	Meeting Type: In-Class	
Met with Product Owner(s): Y		
Problems Brought Up:		
Problem	Proposed Solution	
Need to establish groups and determine very brief project scope.	Got assigned Dr. Akbas' PolyVerif project, along with Isabella Acosta, Hannah Ramsden, and William Reimer.	
Need to establish meeting times.	General meeting dates include in-class time, and some weekends (perhaps some Sundays).	
Other Items Updated on:		
In need of a GPU, Dr. Akbas has a computer that we can use.		
Additional Notes:		
Nothing to note.		

Table 6 - Meeting 2

09/12/2024	Meeting Type: In-Class	
Met with Product Owner(s): Y		
Problems Brought Up:		
Problem	Proposed Solution	
Need to write up Project Proposal Document.	Meet on Discord using voice chat to work together and complete the assignment	
Need to determine our test traffic scenario.	Decided on using the intersection of Aerospace Blvd and Clyde-Morris on near the ICI.	

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Need to establish meeting times.	Used When2Meet to determine the meeting times. Settled on
Other Items Updated on:	
N/A	
Additional Notes:	
Serena Conticello joined the team.	

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NOTES:

here