

# Engineering Notes No. 4.1

## INFORMATION

**NAME:** Isabella Acosta

**DATE:** 10/29/24 - 11/4/24

**Sprint:** 4

## JIRA BACKLOG

### **Responsible for:**

- Complete sections 2.4 - 2.7 of the SRS document

### **Contributed to:**

- Complete SDD Document following the same breakdown as SRS

## RESOURCES &amp; DOCUMENTS CONTRIBUTED TO

**Table 1 - Contributions**

<b>Date</b>	<b>Resource/Document</b>	<b>Location</b>	<b>Contribution Description</b>
11/4/24	SDD shared document	Word online	I uploaded the link to the shared SDD document to the links and resources page in Discord

## COMPONENTS TESTED

*Table 2 - Testing*

Date Tested	Component	Result	Comments
10/29/24	Polyverif simulation	Failed to run	Need to revert back to Ubuntu 20.02
10/30/24	Polyverif simulation	Failed to run	Need to reinstall Python to correct version
10/31/24	Polyverif simulation	Failed to run	LGSVL error now, no longer a docker problem, verified Docker, NVIDIA, and CUDA were downloaded properly. Reached out to Kunal, Quentin, and Dr.Akbas for assistance.

## PROBLEMS SOLVED

**Table 3 - Solutions**

Date	Problem	Solution & Notes
10/29/24	PolyVerif stopped working	Revert to Ubuntu 20.02 and reinstall Docker and NVIDIA as well (Jackson Baker helped with this)
10/30/24	Polyverif stopped working	Checked Python version
10/31/24	Polyverif stopped working	LGSVL error
10/31/24	Polyverif stopped working	Docker was installed properly
10/31/24	Polyverif stopped working	NVIDIA was installed properly
10/31/24	Polyverif stopped working	Found CUDA version 12.2

## PROBLEMS TO ADDRESS NEXT

*Table 4 - Future Problems*

Problem	Description
Continue working on SDD Document	All team members will continue to contribute work on SDD Document.
Presentation	Prepare for our presentation

## MEETING NARRATIVE NOTES:

**Table 5 - Meeting 1**

<b>10/29/24</b>	<b>Meeting Type:</b> StandUp/ <b>Class</b> /ETC
Met with Product Owner(s): <b>Y</b> /N	
<b>Problems Brought Up:</b>	
<b>Problem</b>	<b>Proposed Solution</b>
PolyVerif stopped working	Revert to Ubuntu 20.02 and reinstall Docker and NVIDIA as well (Jackson Baker helped with this)
<b>Other Items Updated on:</b>	
<ul style="list-style-type: none"> <li>• Create Scrum Backlog</li> <li>• Complete the System Requirement Specification.</li> <li>• Send an email to Acclivis for scene / environment creation. <ul style="list-style-type: none"> <li>• Ask the Acclivis guys what their next steps are.</li> </ul> </li> <li>• Create a guide for environment creation.</li> <li>• Create a simple scenario that can simulated, log and display the results.</li> <li>• Scenarios: (0) stop at red light or (1) run a red light.</li> <li>• Improve efficiency of simulation, discussing noise.</li> <li>• Autoware is looking to implement and merge with PolyVerif.</li> <li>• Sections for SRS were assigned <ul style="list-style-type: none"> <li>• Section 1 -&gt; Isabella &amp; Hannah</li> <li>• Section 2 -&gt; William &amp; Isabella</li> <li>• Section 3 -&gt; Hannah, Isabella, and Davian</li> <li>• Section 4 -&gt; Davian</li> <li>• Section 5 -&gt; Davian</li> <li>• Section 6 -&gt; Serena</li> <li>• Section 7 -&gt; Serena</li> <li>• Section 8 -&gt; Davian &amp; Isabella</li> <li>• Hannah and Serena will do diagrams</li> </ul> </li> <li>• Get recording of simulation</li> </ul>	
<b>Additional Notes:</b>	

**Table 6 - Meeting 2**

10/30/24	Meeting Type: StandUp/Class/ETC/Micaplex	
Met with Product Owner(s): Y/N		
Problems Brought Up:		
Problem	Proposed Solution	
Polyverif stopped working	Checked Python version	
Other Items Updated on:		
<ul style="list-style-type: none"><li>Pip install -no-cache-dir &lt;module&gt;</li></ul>		
Additional Notes:		

**Table 7 - Meeting 3**

10/31/24	Meeting Type: StandUp/Class/ETC	
Met with Product Owner(s): Y/N		
Problems Brought Up:		
Problem	Proposed Solution	
Polyverif stopped working	LGSVL error	
Polyverif stopped working	Docker was installed properly	
Polyverif stopped working	NVIDIA was installed properly	
Polyverif stopped working	Found CUDA version 12.2	
Other Items Updated on:		
<ul style="list-style-type: none"><li>Micaplex Meeting</li><li>Continued issues with Polyverif</li><li>Possibly an issue with our computer, currently investigating issues</li><li>Reached out to Kunal, Quentin, Akbas, Serena/Hannah for Polyverif guidance.</li></ul>		
Additional Notes:		

**NOTES:**

This sprint was difficult as we started with multiple errors within Polyverif. It was working one day and then crashed and we had many different errors to deal with. We were able to work on the SDD and continue to troubleshoot and work through the errors that we had.