Engineering Notes No. 7.1

## INFORMATION

**NAME:** William Reimer

**DATE:** 01/09/25 - 01/16/25

**Sprint: 7**

## JIRA BACKLOG

**Responsible for:**

* Create 3D scan of ERAU for Acclivis

**Contributed to:**

* Creation of test cases
* PolyVerif bug fixing
* PolyVerif re-installation

## RESOURCES & DOCUMENTS CONTRIBUTED TO

***Table 1 - Contributions***

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Resource/Document** | **Location** | **Contribution Description** |
| 01/14/25 | 3D scan creation | Blender,  OpenStreetMap | To get a key required to make a map of ERAU that works in PolyVerif, Acclivis must generate the key for us. I worked to make a detailed render of ERAU that is suitable for their needs |
| 01/16/25 | PolyVerif de-bugging | Issues with loading PolyVerif needed to be fixed. | Assisted with debugging PolyVerif – uninstalling and reinstalling Polyverif, docker, etc. |

## COMPONENTS TESTED

***Table 2 - Testing***

|  |  |  |  |
| --- | --- | --- | --- |
| **Date Tested** | **Component** | **Result** | **Comments** |
| N/A | N/A | N/A | No testing occurred this week. This week was dedicated to planning for the weeks ahead: creating test cases, debugging PolyVerif, and understanding next steps. |
|  |  |  |  |

## PROBLEMS SOLVED

***Table 3 - Solutions***

|  |  |  |
| --- | --- | --- |
| **Date** | **Problem** | **Solution & Notes** |
| N/A | N/A | N/A |
|  |  |  |

## PROBLEMS TO ADDRESS NEXT

***Table 4 – Future Problems***

|  |  |
| --- | --- |
| **Problem** | **Description** |
| De-bugging PolyVerif | At the end of last semester, PolyVerif began giving us some trouble. When trying to run a scenario, it would not load and display the simulation, nor would it generate a report. Need to figure out way to restore PolyVerif to a working state. |
| Setting up roles for this semester | The group needs to schedule future roles and scheduling for implementing test cases and adding machine learning capabilities to PolyVerif (if have time). |

## MEETING NARRATIVE NOTES:

***Table 5 – Meeting 1***

|  |  |  |
| --- | --- | --- |
| **01/14/25** | **Meeting Type:** Class/Standup/Presentation | |
| Met with Product Owner(s): Y/N | | |
| **Problems Brought Up:** | | |
| **Problem** | | **Proposed Solution** |
| Debugging PolyVerif | | If needed, email Acclivis for more information and assistance on debugging PolyVerif |
| Adding 3D map to PolyVerif | | Email Acclivis map when completed to have them generate a key for us. |
|  | |  |
| **Other Items Updated on:** | | |
|  | | |
| **Additional Notes:** | | |
|  | | |

***Table 6 – Meeting 2***

|  |  |  |
| --- | --- | --- |
| **01/16/25** | **Meeting Type:** Class/Standup/Presentation | |
| Met with Product Owner(s): Y/N | | |
| **Problems Brought Up:** | | |
| **Problem** | | **Proposed Solution** |
| Debugging PolyVerif | | We attempted to fix the issues with PolyVerif improperly generating the simulation. Tried reinstalling PolyVerif, analyzing file structure, etc. PolyVerif was restored to working state when docker was uninstalled and reinstalled. |
|  | |  |
|  | |  |
| **Other Items Updated on:** | | |
| PolyVerif is working now at this time | | |
| **Additional Notes:** | | |
|  | | |

## NOTES:

Group Notes:

01/14

From now on meet in LB 367 on Tuesdays.

Did not start the sprint last week, starting sprint today (ideally).

Adding backlog items to the backlog.

Thursdays are our MicaPlex days.

PolyVerif is currently unstable, but can be easily fixed.

Engineering notes (do them) sprint 7.

Hannah will send Isabella and Davian the PolyVerif templates to write in python.

**FOCUS ON THE PRODUCT!**

Stuff not used in the final product (separate contributions) can be added to the PolyVerif repo.

Decide on final product (deliverable) in the next two weeks, know what we are going to do.

Serena created new Engineering Notes templates.

For 3D map,.fbx is desired, .obj works as well.

01/16

Met in the MicaPlex

Computer went super dormant and didn't turn on – Quentin fixed it

Troubleshooting PolyVerif