Engineering Notes No. 1.1

## INFORMATION

**NAME:** Hannah Ramsden

**DATE:** 09/17/24 - 09/20/24

**Sprint:** 1

## JIRA BACKLOG

**Responsible for:**

* Meet with Dr. Akbas to Determine Project Scope
* Establish GitHub Page

**Contributed to:**

* Begin Project Proposal
* Read Polyverif Papers
* Decide which Intersection to Use
* Create Tutorial for Rendering in Blender

## RESOURCES & DOCUMENTS CONTRIBUTED TO

***Table 1 - Contributions***

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Resource/Document** | **Location** | **Contribution Description** |
| 09/17/24 | Shared OneNote Creation | [One Note](https://myerauedu-my.sharepoint.com/:o:/r/personal/ramsdenh_my_erau_edu/_layouts/15/Doc.aspx?sourcedoc=%7BF8085ECA-A67D-4D61-B616-7A03739D849B%7D&file=Senior%20Design%20-%20Autonomous%20Vehicle%20Design&action=edit&mobileredirect=true&wdorigin=701&RootFolder=%2Fpersonal%2Framsdenh_my_erau_edu%2FDocuments%2FNotebooks%2FSenior%20Design%20-%20Autonomous%20Vehicle%20Design&wdo=6) | Created OneNote to organize all research, progress, meeting notes, and important information. |
| 9/17/24 | GitHub Page | [GitHub](https://github.com/HKRamsden/ERAUPolyVerif/tree/main) | Created GitHub page and original documentation to store project progress. |
| 9/17/24 | Daily Scrum Notes | [One Note](https://myerauedu-my.sharepoint.com/:o:/r/personal/ramsdenh_my_erau_edu/_layouts/15/Doc.aspx?sourcedoc=%7BF8085ECA-A67D-4D61-B616-7A03739D849B%7D&file=Senior%20Design%20-%20Autonomous%20Vehicle%20Design&action=edit&mobileredirect=true&wdorigin=701&RootFolder=%2Fpersonal%2Framsdenh_my_erau_edu%2FDocuments%2FNotebooks%2FSenior%20Design%20-%20Autonomous%20Vehicle%20Design&wdo=6) | Organized meeting questions for Dr. Akbas, organized timeline for remainder of sprint goals. |
| 9/17/24 | SUMO Documentation Upload | Discord,  #links-n-resources | Found official description of what SUMO (Simulation of Urban Mobility) is, and how it is used |
| 9/17/24 | AAVC Demo Videos Upload | Discord,  #links-n=resources | Demo videos of Polyverif VV&C suite that further our understanding of our goals and software to be used. |
| 9/17/24 | Project Proposal | [Word Online](https://myerauedu-my.sharepoint.com/:w:/r/personal/acostai1_my_erau_edu/_layouts/15/Doc.aspx?sourcedoc=%7B0B728F15-3609-445F-B1B4-15ED4091CAF7%7D&file=Project%20Proposal%20CS%20490.docx&action=default&mobileredirect=true&DefaultItemOpen=1&ct=1729737795572&wdOrigin=OFFICECOM-WEB.START.EDGEWORTH&cid=a5dc10e0-be06-4c43-9b31-d735d08b8796&wdPreviousSessionSrc=HarmonyWeb&wdPreviousSession=deb5ab17-1a88-4c9e-a192-c551ec204796) | Determining Basic definition of problem |
| 9/18/24 | Product Owner Meeting Notes | [One Note](https://myerauedu-my.sharepoint.com/:o:/r/personal/ramsdenh_my_erau_edu/_layouts/15/Doc.aspx?sourcedoc=%7BF8085ECA-A67D-4D61-B616-7A03739D849B%7D&file=Senior%20Design%20-%20Autonomous%20Vehicle%20Design&action=edit&mobileredirect=true&wdorigin=701&RootFolder=%2Fpersonal%2Framsdenh_my_erau_edu%2FDocuments%2FNotebooks%2FSenior%20Design%20-%20Autonomous%20Vehicle%20Design&wdo=6) | Documented product owners, official stakeholders, and outlined main goal for the project, providing clarity for further work. |
| 9/18/24 | Project Proposal | [Word Online](https://myerauedu-my.sharepoint.com/:w:/r/personal/acostai1_my_erau_edu/_layouts/15/Doc.aspx?sourcedoc=%7B0B728F15-3609-445F-B1B4-15ED4091CAF7%7D&file=Project%20Proposal%20CS%20490.docx&action=default&mobileredirect=true&DefaultItemOpen=1&ct=1729737795572&wdOrigin=OFFICECOM-WEB.START.EDGEWORTH&cid=a5dc10e0-be06-4c43-9b31-d735d08b8796&wdPreviousSessionSrc=HarmonyWeb&wdPreviousSession=deb5ab17-1a88-4c9e-a192-c551ec204796) | Determined Secondary Stakeholders, notation of no budget |
| 9/19/24 | Daily Scrum Notes | [One Note](https://myerauedu-my.sharepoint.com/:o:/r/personal/ramsdenh_my_erau_edu/_layouts/15/Doc.aspx?sourcedoc=%7BF8085ECA-A67D-4D61-B616-7A03739D849B%7D&file=Senior%20Design%20-%20Autonomous%20Vehicle%20Design&action=edit&mobileredirect=true&wdorigin=701&RootFolder=%2Fpersonal%2Framsdenh_my_erau_edu%2FDocuments%2FNotebooks%2FSenior%20Design%20-%20Autonomous%20Vehicle%20Design&wdo=6) | Obtained our official TA, Planning release of 3D rendering tutorial for the 21st. Project proposal continued. |
| 9/19/24 | Project Proposal | [Word Online](https://myerauedu-my.sharepoint.com/:w:/r/personal/acostai1_my_erau_edu/_layouts/15/Doc.aspx?sourcedoc=%7B0B728F15-3609-445F-B1B4-15ED4091CAF7%7D&file=Project%20Proposal%20CS%20490.docx&action=default&mobileredirect=true&DefaultItemOpen=1&ct=1729737795572&wdOrigin=OFFICECOM-WEB.START.EDGEWORTH&cid=a5dc10e0-be06-4c43-9b31-d735d08b8796&wdPreviousSessionSrc=HarmonyWeb&wdPreviousSession=deb5ab17-1a88-4c9e-a192-c551ec204796) | Problem Statement outline created, determined primary stakeholders, created examples within proposed solution. |

## COMPONENTS TESTED

***Table 2 - Testing***

|  |  |  |  |
| --- | --- | --- | --- |
| **Date Tested** | **Component** | **Result** | **Comments** |
| N/A | N/A | N/A | N/A |

## PROBLEMS SOLVED

***Table 3 - Solutions***

|  |  |  |
| --- | --- | --- |
| **Date** | **Problem** | **Solution & Notes** |
| 09/17/24 | Micaplex Access | Dr. Akbas had us send in our student ID numbers so we can have access to the Micaplex and specific Lab Access |
| 9/17/24 | IEEE Lab Access | Worked with Davian to obtain access into IEEE Lab for meeting location purposes. |

## PROBLEMS TO ADDRESS NEXT

***Table 4 – Future Problems***

|  |  |
| --- | --- |
| **Problem** | **Description** |
| Project Design Refinement | Focusing on what sections of campus to be modeled, and what specific intersection we want to start with next. |
| Project Proposal Document | Further Edits, need to Submit project proposal. |
| Sprint 2 Backlog | Determine goals for the upcoming sprint period |
| Gain Access into Micaplex | Documents submitted, but no clear information on if we have access or not. |

## MEETING NARRATIVE NOTES:

***Table 5 – Meeting 1***

|  |  |  |
| --- | --- | --- |
| **09/17/24** | **Meeting Type:** Class | |
| Met with Product Owner(s): N | | |
| **Problems Brought Up:** | | |
| **Problem** | | **Proposed Solution** |
| Micaplex Access/Questions | | Need to get in contact with Quentin for further access, and access into Micaplex. Parking passes submitted but need to be approved. |
| Scope Clarity | | Need to contact Akbas about Scope, Meeting planned on the 18th. |
| Other Items Updated on: | | |
| * Serena and Isabella want to focus on documentation * Meeting formally scheduled for Wednesday, 9/18, at 10:30 am | | |
| **Additional Notes:** | | |
| * Aiming for a draft project proposal on Thursday | | |

***Table 6 – Meeting 2***

|  |  |  |
| --- | --- | --- |
| **09/18/24** | **Meeting Type:** Standup | |
| Met with Product Owner(s): Y | | |
| **Problems Brought Up:** | | |
| **Problem** | | **Proposed Solution** |
| Project Proposal | | Determine the scope for the project, current goals for semester 1 and 2, and a general timeline. Understand Stakeholders and obtained clarity on main goals. |
| Other Items Updated on: | | |
| * Dr. Akbas now has access to project proposal document and will be making edits shortly. | | |
| **Additional Notes:** | | |
| * Possible future applications with neuroevolution but might seem out of reach right now. | | |

***Table 7 – Meeting 3***

|  |  |  |
| --- | --- | --- |
| **09/19/24** | **Meeting Type:** Class | |
| Met with Product Owner(s): Y | | |
| **Problems Brought Up:** | | |
| **Problem** | | **Proposed Solution** |
| 3D Render | | William is working in blender, using RenderDoc and Google Maps to create a very basic demo and tutorial video. |
| Other Items Updated on: | | |
| * Tutorial Video will be updated next class meeting. | | |
| **Additional Notes:** | | |
| * N/A | | |

## NOTES:

Solid start to the sprint, many substantial meetings were held to understand our project and what needed to be done. Overall happy with progress.