Engineering Notes No. 14.1

## INFORMATION

**NAME:** Isabella Acosta

**DATE:** 04/17/25 - 04/24/25

**Sprint: 14**

## JIRA BACKLOG

**Responsible for:**

* EGR Notes 3
* Set up Scenic-Sumo – Isabella
* Test Introductory test cases

**Contributed to:**

* Plan out AI and neuroevolution scope of project
* Set up Scenic-Sumo -- Micaplex PC

## RESOURCES & DOCUMENTS CONTRIBUTED TO

***Table 1 - Contributions***

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Resource/Document** | **Location** | **Contribution Description** |
| N/A | N/A | N/A | N/A |

## COMPONENTS TESTED

***Table 2 - Testing***

|  |  |  |  |
| --- | --- | --- | --- |
| **Date Tested** | **Component** | **Result** | **Comments** |
| 04/17/25 | Falsifier issue | Giving us an error | There is an issue with the falsifier.py with numpy |

## PROBLEMS SOLVED

***Table 3 - Solutions***

|  |  |  |
| --- | --- | --- |
| **Date** | **Problem** | **Solution & Notes** |
| 0417/25 | Falsifier issue | Serena fixed the issue, it was because of the deprecated use of numpy np.float |

## PROBLEMS TO ADDRESS NEXT

***Table 4 – Future Problems***

|  |  |
| --- | --- |
| **Problem** | **Description** |
| Poster Presentation | Final poster presentation |

## MEETING NARRATIVE NOTES:

***Table 5 – Meeting 1***

|  |  |  |
| --- | --- | --- |
| **04/17/25** | **Meeting Type:** Class/Standup/Presentation/**MicaPlex** | |
| Met with Product Owner(s): Y/**N** | | |
| **Problems Brought Up:** | | |
| **Problem** | | **Proposed Solution** |
| Falsifier issue | | Fixed, issue with np.float |
| **Other Items Updated on:** | | |
|  | | |
| **Additional Notes:** | | |
| Met in MP 224, Serena is looking to modify the source code of VerifAI  Potential issue within falsifier.py with numpy  WTF does "color of the broken" refer to    We want to falsify the NN detecting cones and the hybrid controller.    Issue with np.float, removed np (leaving it as just float) seemed to fix it.  Serena resolved the issue with falsifier not loading. Issue was due to deprecated use of numpy np.float!!! | | |

***Table 6 – Meeting 2***

|  |  |  |
| --- | --- | --- |
| **04/22/25** | **Meeting Type:** Class/Standup/Presentation/**MicaPlex** | |
| Met with Product Owner(s):Y/N | | |
| **Problems Brought Up:** | | |
| **Problem** | | **Proposed Solution** |
| N/A | | N/A |
| **Other Items Updated on:** | | |
|  | | |
| **Additional Notes:** | | |
| Meeting in the micaplex  Need to learn how to make a falsifier  Looked at [VerifAI/examples/scenic/falsify\_distance.py at main · BerkeleyLearnVerify/VerifAI · GitHub\](https://github.com/BerkeleyLearnVerify/VerifAI/blob/main/examples/scenic/falsify_distance.py)  Basic Usage — VerifAI documentation\  [Colloquium Talk](https://people.eecs.berkeley.edu/~sseshia/talks/Seshia-VerifiedAI_RV19.pdf)  Currently an issue with the file path. | | |

***Table 7 – Meeting 3***

|  |  |  |
| --- | --- | --- |
| **04/24/25** | **Meeting Type:** Class/Standup/**Presentation** | |
| Met with Product Owner(s):Y/**N** | | |
| **Problems Brought Up:** | | |
| **Problem** | | **Proposed Solution** |
| N/A | | N/A |
| **Other Items Updated on:** | | |
|  | | |
| **Additional Notes:** | | |
| Poster presentations  Hannah and Serena working their voodoo in mp 224  Engineering notes and 10-minute video due tonight!!! | | |

## NOTES:

We have finished our project!!!! Not the results we were hoping for, but did get somewhere and learned a lot through this process.