| [2025-03-16] |  | Project Status Report |
| --- | --- | --- |
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# Snapshot of Project Activities

| Activity | % Complete | Issues |
| --- | --- | --- |
| C++: Memory Management Subsystem | 90% | There is one lingering, difficult to diagnose, bug in this subsystem that needs to be resolved before it can be considered complete |
| C++: Physics Subsystem - Raycasting for Object Selection | 90% | Almost the same sentence as above- the system is in-place, but has one final bug that needs to be squashed before I can move on |
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# Status Summary

| This week, I got to about 90% completion on my final 2 subsystems. Once these are in place, the remainder of my work on the project will be user interface design/implementation and overall polish. It looks like there’s a chance I’ll be able to tackle a few of my stretch goals, but we’ll see how the next few weeks go |
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# Risks Identified / Plan to Mitigate

| I think I’m operating right on the edge of my current abilities with my memory and physics subsystems. I’m definitely pushing myself, which is good, but debugging is becoming harder and harder. I had ideas for a few other capabilities I *could* implement in these subsystems that, while cool, are not necessary for the program to function. Seeing how hard my current work has been, I have moved all of those options out into stretch goals and will begin final interface design and polishing as soon as these two areas are resolved. |
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# Weekly Timesheet

| **Activity** | **Actual Hours Worked** | | | | | | | | **Estimated** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Mon** | **Tues** | **Wed** | **Thu** | **Fri** | **Sat** | **Sun** | **TOTAL** | **Hours** | **Date** |
| **Remaining** | **Complete** |
| C++: Memory Management Subsystem | 2.1 | 1.3 | 1.4 | .2 | .4 |  |  | 5.4 | 5.0 |  |
| C++: Physics Subsystem - Raycasting for Object Selection |  |  |  |  | 4.8 |  | 1.2 | 6.0 | 5.0 |  |
|  |  |  |  |  |  |  |  | 0.00 |  |  |
|  |  |  |  |  |  |  |  | 0.00 |  |  |
|  |  |  |  |  |  |  |  | 0.00 |  |  |
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|  |  |  |  |  |  |  |  | 0.00 |  |  |
|  |  |  |  |  |  |  |  | 0.00 |  |  |
|  |  |  |  |  |  |  |  | 0.00 |  |  |
|  |  |  |  |  |  |  |  | 0.00 |  |  |
| **Totals:** | **2.1** | **1.3** | **1.4** | **0.2** | **5.2** | **0.0** | **1.2** | **11.4** |  |  |