**Project Status Report**

**Northrop Grumman – Quantum AI AT The Edge**

**As Of: 10/31/2021**

**Project Status Summary**  Percent Complete: 8%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Scope | Schedule | Cost | Risks | Quality |

Risks

The sponsor has communicated that this project is fully R&D and exploratory by nature. There is a high probability that the project will not actually work. However, we will certainly be doing our best. If the quantum piece fails to show improvements over traditional models, then traditional models will be used for inference on the emulator.

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# Work Planned for Last Week

We are now effectively postured to start working on requirements. We have a Google Doc that we are working on as a team and have identified three valid use cases. We are also currently brainstorming additional use cases and potential requirements. Last, we are still working to setup Vitas and Xilinx. Once these are setup, we will begin familiarizing ourselves with the more nuanced elements of the technology stack.

# Work Completed Last Week

We planned out our requirements and have almost completed three use cases for our project. Additionally, we also began brainstorming ideas for our presentation. We have setup a google slides template presentation and are meeting regularly as a team to come up with slides, talking points, and practice our presentation timing. We have one remaining use case for our project that we are currently tidying up. Once that is complete we will be turning in our requirements document.

# Work Planned For Next Week

We are finalizing our requirements document with the final use case. Additionally, we will continue to meet regularly as a team to come up with slides, talking points, and practice our presentation timing. Once our final use case if tidied up we will upload it for submission.

# Open Issues

* Similar to last week, we will now be working to setup the supplemental development environments Vitas and Xilinx on everyone’s personal computers. We are also continuing meet regularly to plan our project presentation and practice our presentation delivery.

# Deliverables and Milestones

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Milestone | WBS | Planned | Forecasted | Actual | Status |
| Initial development environments | 002 | 10/11/2021 | 10/11/2021 | 10/12/2021 | Complete |
| Supplemental development environments | 004 | 10/30/2021 | 10/30/2021 | 10/31/2021 | Complete |
| Setup Vitas and Xilinx | 006 | 10/21/2021 | 11/15/2021 | TBD | Incomplete |
| Deliverable | WBS | Planned | Forecasted | Actual | Status |
| Setup git branches | 003 | 10/3/2021 | 10/3/2021 | 10/3/2021 | Complete |
| Project Charter Updates | 001 | 10/14/2021 | 10/15/2021 | 10/14/2021 | Complete |
| Requirements Document | 005 | 10/21/2021 | 11/08/2021 | TBD | Incomplete |
| First Use Case | 007 | 10/21/2021 | 10/24/2021 | 10/24/2021 | Complete |

# Open Change Requests

|  |  |  |  |
| --- | --- | --- | --- |
| Change Request Name | Change Request Number | Request Date | Current Status |
| NA |  |  |  |
| NA |  |  |  |

# Key Performance Indicators (KPI's)

**Schedule** - Project is on schedule

Schedule Variance (SV): +/- 3 days

**Cost** - Project is on budget

Cost Variance (CV): $0