**Project Status Report**

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

**As Of: 10/24/2021**

**Project Status Summary**  Percent Complete: 6%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 planned to work out the initial deliverables and requirements of our of project. As well as setting up the next stage of development environments such as Vitas and Xilinx on everyone’s personal computers. as well as working out the initial requirements of our project.

* Continue to review novel research papers provided by the sponsor.
* Continue to read documentation surrounding the technology stack.
* Setup the supplemental development environments Vitas and Xilinx on everyone’s personal computers.

# Work Completed Last Week

We made the appropriate changes to our project charter. The updated project charter incorporates the feedback provided by both our TA and our Project Sponsor. The Project Sponsor has approved the Project Charter and we have updated Kirby our TA. Additionally, we also posted the approval email to the Github Repository. Last, everyone development environments are now fully setup on the personal machines. We are now effectively postured to start working on requirements.

# Work Planned For Next 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.

# Open Issues

* We will now be working to setup the supplemental development environments Vitas and Xilinx on everyone’s personal computers. We are also continuing to brainstorm and develop our requirements and use cases.

# 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 | TBD | Incomplete |
| 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 | TBD | 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): +/- 2 days

**Cost** - Project is on budget

Cost Variance (CV): $0