

PROJECT STATUS REPORT
NORTHROP GRUMMAN – QUANTUM AI AT THE EDGE
AS OF: 01/24/2022

PROJECT STATUS SUMMARY

Percent Complete: 15%

| | | | | |
|-------|----------|------|-------|---------|
| 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.

WORK PLANNED FOR LAST WEEK

We planned to figure out a new meeting time. The team has busy schedules with minimal overlap. We were also planning to do the last bit of development setup on all of the team's computers.

WORK COMPLETED LAST WEEK

We identified a new meeting time that works for everyone on the team, Kirby, and the project sponsor. Our new meeting time is Friday's at 16:30. Additionally, we completed our installations of Cirq, Qiskit, and Vitis.

WORK PLANNED FOR NEXT WEEK

We are now ready to begin our solution design. We have obtained the dataset we will be using for the project and made it available to every team member. Additionally we are going to get together and begin a UML solution design diagram as we start laying the groundwork for our project and solution implementation.

OPEN ISSUES

- They are currently no open issues.

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 | 006 | 10/21/2021 | 1/15/2021 | 1/14/2021 | Complete |
| 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 | 11/15/2021 | Complete |
| 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