

PROJECT STATUS REPORT

NORTHROP GRUMMAN – QUANTUM AI AT THE EDGE

AS OF: 04/25/2022

PROJECT STATUS SUMMARY

Percent Complete: 100%

Scope	Schedule	Cost	Risks	Quality
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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 wrap up the rest of our implementation and then focus on our talking points of our poster so we could effectively present our findings at the engineering expo, and present our findings again at the Northrop Grumman facility in Boulder on April 28th.

WORK COMPLETED LAST WEEK

We refined our talking points and reviewed our findings on the poster. We spent most of the week preparing for the engineering expo on April 22nd.

WORK PLANNED FOR NEXT WEEK

We plan to continue working toward our stretch goal of taking the MLP and SVM and running it on a physical quantum processor. Additionally, we have also been invited to the Northrop Grumman campus on April 28th to present our findings there as well. As a result, we plan to continue to refine our talking points and use the engineering expo as a trail run of our presentation.

OPEN ISSUES

- There are currently no longer any 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
Solution Design	008	01/31/2022	02/18/2022	2/24/2022	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