

# PROJECT STATUS REPORT

## NORTHROP GRUMMAN – QUANTUM AI AT THE EDGE

### AS OF: 12/06/2021

#### PROJECT STATUS SUMMARY

Percent Complete: 15%

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 are back from winter break this week so we had no work planned for last week.

#### WORK COMPLETED LAST WEEK

We are back from winter break this week, so we had no work completed last week.

#### WORK PLANNED FOR NEXT WEEK

We already met once as a group and are planning to meet again. This semester everyone has new class times so we are trying to work out a new meeting time that works for everyone along with Kirby our TA's schedule as well.

Additionally, we have finished getting our stack working we have been able to successfully install and configure Google Cirq, IBM Qiskit, and Vitis on both Linux and Window's machine. We are currently doing a refresher and reviewing Qiskit, Cirq, and Vitis before we begin prototyping our solution for the project.

**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