

# PROJECT STATUS REPORT

## NORTHROP GRUMMAN – QUANTUM AI AT THE EDGE

### AS OF: 10/11/2021

#### PROJECT STATUS SUMMARY

Percent Complete: 3%

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

Scope: There is a comprehensive technology stack involved in running quantum AI classifiers on the Google and IBM simulators. There stack is then compounded by having to then take these models and reimplement them on embedded and edge node platforms. As a result, there is a steep learning curve and one that is easily susceptible to scope creep. A significant portion of this project will be spent simply reading documentation and doing tutorials.

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.

#### WORK PLANNED FOR LAST WEEK

The work planned for last week was as follows:

- Continue to review novel research papers provided by the sponsor.
- Continue to read documentation surrounding the technology stack.
- Setup a working development environment on each team members computer.

#### WORK COMPLETED LAST WEEK

Last week we submitted the project charter to the sponsor, and they requested some small changes be made. We have made the changes and are resubmitting the project charter to the sponsor this week. We also are nearly finished setting up all of the development environments on every group member's personal computer.

#### WORK PLANNED FOR NEXT WEEK

The team is still working to get working development environments setup on everyone's respective machines. The team is also still working to complete the necessary tutorials provided the sponsor to begin working on the project code and quantum simulators. The work planned for next week is as follows:

- Continue to review novel research papers provided by the sponsor.
- Continue to read documentation surrounding the technology stack.
- Some members are still having issues setting up the development environment we'll continue to debug and troubleshoot.

**OPEN ISSUES**

Some members have working development environments setup. We will continue to debug and troubleshoot the remaining members machines until everyone has a working development environment.

**DELIVERABLES AND MILESTONES**

Milestone	WBS	Planned	Forecasted	Actual	Status
Project Charter	001	10/3/2021	10/3/2021	10/3/2021	Completed
Development environments	002	10/11/2021	10/11/2021	TBD	On Schedule
Deliverable	WBS	Planned	Forecasted	Actual	Status
Setup git branches	003	10/3/2021	10/3/2021	10/3/2021	Completed

**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): +/- 1 days

**Cost** - Project is on budget

Cost Variance (CV): \$0