BURGS Weekly Presentation

Broadening Undergraduate Research Groups
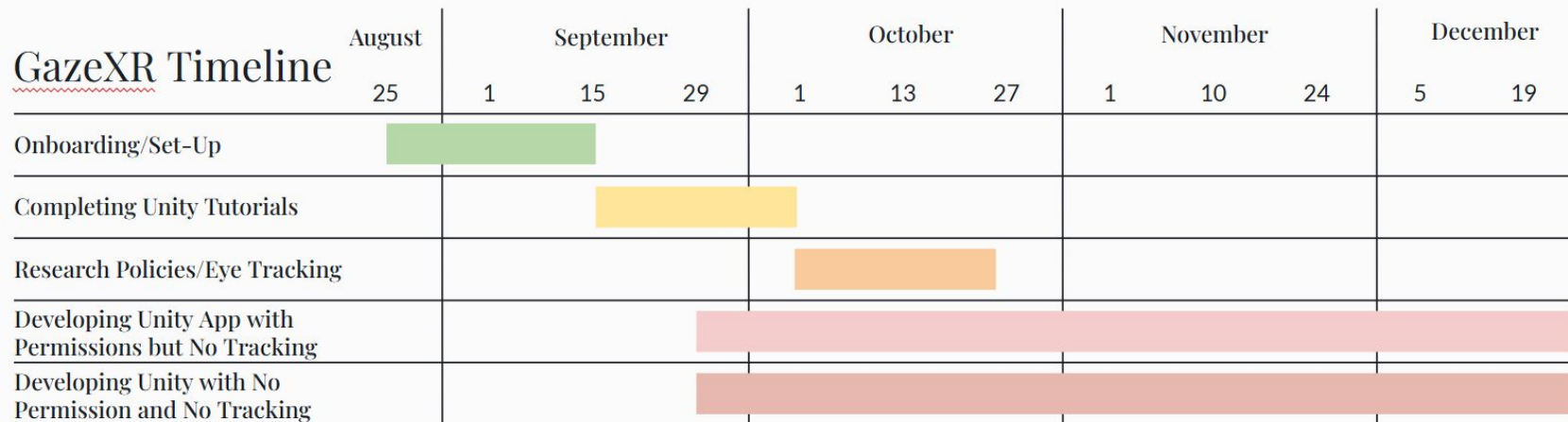
9/19/2025

Allie, Casie, Gayatri, Kim

Unity Application – Meta Policies

- Does Meta auto-publish apps after they are approved?
  - Conflicting answers
  - Auto-publishing leads to liability/possible legal/ethical grey areas
    - Password protecting the app may prevent liability
- Meta requirements for publishing
  - Must be "playable"
  - Allow for 2 weeks of buffer between submitting for approval and gaining approval
  - https://developers.meta.com/horizon/resources/publish-quest-req
- Link to policy summaries

Unity Application – Plan

- Proof of Concept Unity Applications
  - Unity game without Meta permissions for eye tracking, DOES eye tracking, no consent
  - Unity game with Meta SDK, permissions for eye tracking, DOES **NOT** use package
  - Unity game that does eye tracking, with Meta SDK, with consent prompt
- VR Consulting
  - Help with creating repository with Unity code to share (use GitLab?)
  - Work on application more
- Continue Research
  - Policies, regulations, development, etc.
- Organization
  - Timeline/Goals
  - Resources

Unity Application – Timeline

| GazeXR Timeline	August	September		October		November		December
	25	1 15 29		1 13 27		1 10 24		5 19
Onboarding/Set-Up								
Completing Unity Tutorials								
Research Policies/Eye Tracking								
Developing Unity App with Permissions but No Tracking								
Developing Unity with No Permission and No Tracking								

Radeon GPU: A Dead End

- Upon thorough inspection , found that there isn't a documented export method for .rgp captures
- Neither the RGP manual nor recent release notes mention any data-table export for captures
- The tool is designed for interactive analysis, not numeric export.

Allie, Gayatri

Built-In Unity Profiler
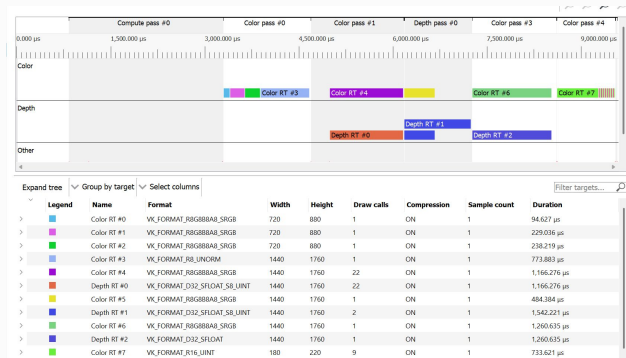
- Built a test project just to see if we could get some objects to show up in the headset
- Were not able to connect to Anish's headset, would not show up as a device to export to in Unity, though a different Meta Quest Pro was able to connect
- Can't do anything until headset can be connected
- Got Meta Quest Link working
- Got profiler working on app simulation, exactly the features we need, easy to export
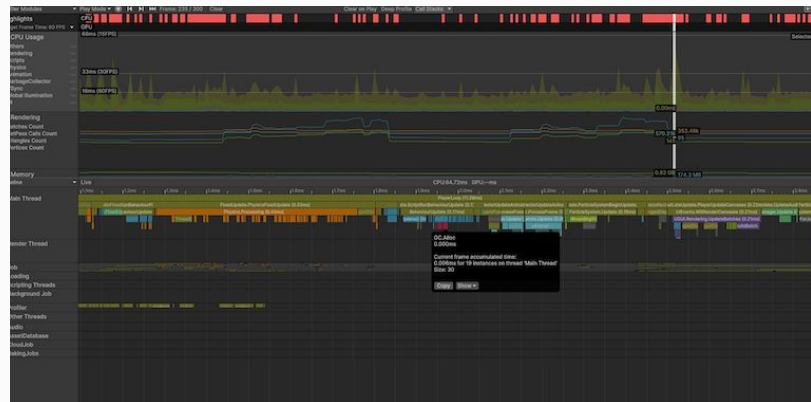
Next profiler: Meta Performance Profiler

Questions/Issues

1. Developing on Anish's Meta Quest Pro
   a. Not working, will collaborate with lab members for assistance