

# BURGS Weekly Presentation

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Broadening Undergraduate Research Groups

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10/3/2025

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# Weekly Progress

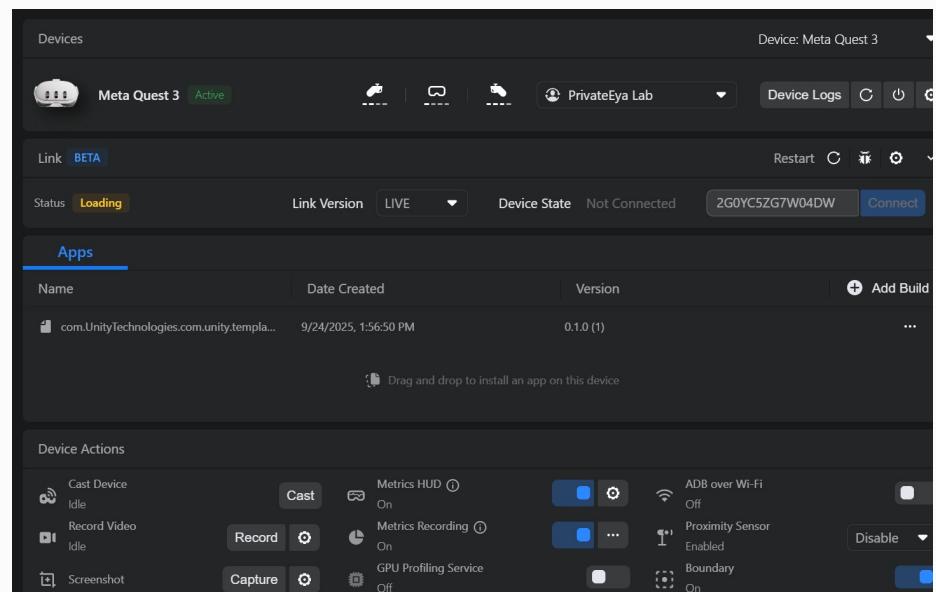
- Got a MetaQuest Pro to connect to the PC
  - Built and ran our test game successfully
  - Will need to update our editor version
- Completed game design/overview
- Researched RayInteractions within the MetaSDK

[Ray Interactions Guide - Kim](#)  
[Game design Document - Kim](#)  
and Casie

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Star	File	Cloud	gaze_xr C:\Users\kimgi\Downloads\GazeXR\gaze_xr	3 minutes ago	<p>Applications built with this Editor version have a known security issue. Update Editor before publishing. <a href="#">Read more.</a></p> <p>⚠ 6000.0.50f1 ⌂ ⋮</p>

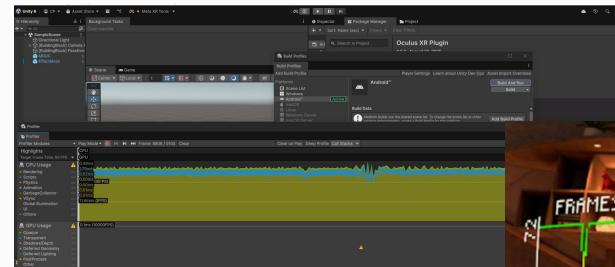
# Headset-Laptop Compatibility

1. Figured out how to connect the headset with our laptops
  - a. Airlink not operational - requires a certain GPU that is uncommon in laptops
  - b. Had to work out some developer settings on headset + local device
2. Some profilers require USB-C connection
  - a. Gives us on-the-go operability with our profilers + scanning application

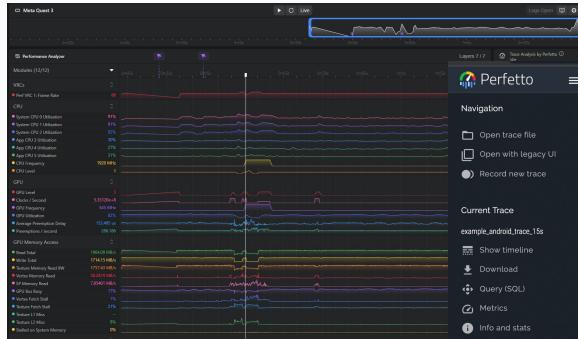


# Whirlwind of Data Collection

1. Unity Built-in Profiler
2. Meta Performance Analyzer
3. Perfetto
4. OVRMetrics Tool



Unity Built-In Profiler



Meta Performance Analyzer



Perfetto



OVR Metrics

# Whirlwind of Data Collection

Profiler	Issues
Unity Built-In Profiler	Exports in binary data
Meta Performance Analyzer	Does not export at all unless running a 3rd parallel program like Perfetto
Perfetto	Lots of logistics, tracks a lot of features we are unfamiliar with and therefore don't know if they'd be relevant
OVR Metrics	Exports a lot of data by CSV and the one we decided on for data collection (for now). At times unreliable, provides little control over when data collections starts and stops

# OVR Metrics

- One of the problems with the tool seems to be its incompatibility with apps from unknown sources (unpublished Unity exports)
  - Very consistent with data collection for apps that exist on the Meta Quest Store
- Maybe instead of switching power profilers, we should switch scanners
- Next steps: Want to try the environment scanner sent by Dr. David-John and see if this yields better results

# Questions?

We may have answers!

# Questions/Issues