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Project Presentation: TEI '21 Student Consortium

Project Outline: TEI '21 Student Consortium Paper

← Summary

Hardware Process →

Inspiration & Rationale (May - July 2020)

During the development of the pilot study for my PhD: the area~ system, I came across the open-source Project North Star AR headset. It had a very clear set of advantages detailed below:

Visual Display

■ 2K resolution per-eye OLED displays

Tracking

- Hand Tracking (Ultraleap Stereo IR 170)
- 6DoF Body Tracking (Intel T261)

Software

Unity Implementation (Project Esky)

Miscellaneous

- Community of makers (>2000 people)
- Open-sourced design ability to expand to other sensory modalities

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- .stl files for 3D Printing
- Cheap in comparison to Microsoft HL2 and Magic Leap ML-1

I therefore thought it would be a good platform to design my further studies with. Either in conjunction with wireless bone conduction headphones, or via designing, 3D printing, and implementing a bone conduction solution for the headset.



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Resources

Headset Documentation: Project North Star

Community: Project North Star Discord Server

Repository: Project Esky Renderer

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