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
- .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 desigining, 3D printing, and implementing a bone conduction solution for the headset.