ARmageddon Group
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# MOBILE USER INTERFACE

Interaction Design I HS2022

RealWear

Pros:
-adjustable screen
-hot swappable battery
-4G connectivity
-3rd party app compatible
-48MP camera
-dust proof and water resistant
-hard hat compatible
-voice controls up to 100db

Cons:
-expensive 2500 - 5200 $
-limited control options outside of
-voice control

Use Cases:
-remote expert guidance
-remote audits
-documentation
-streamline work process

What to implement:
-adjustable screen (maybe even
-provide a cover for the transparent
screen)
-hard hat compatible
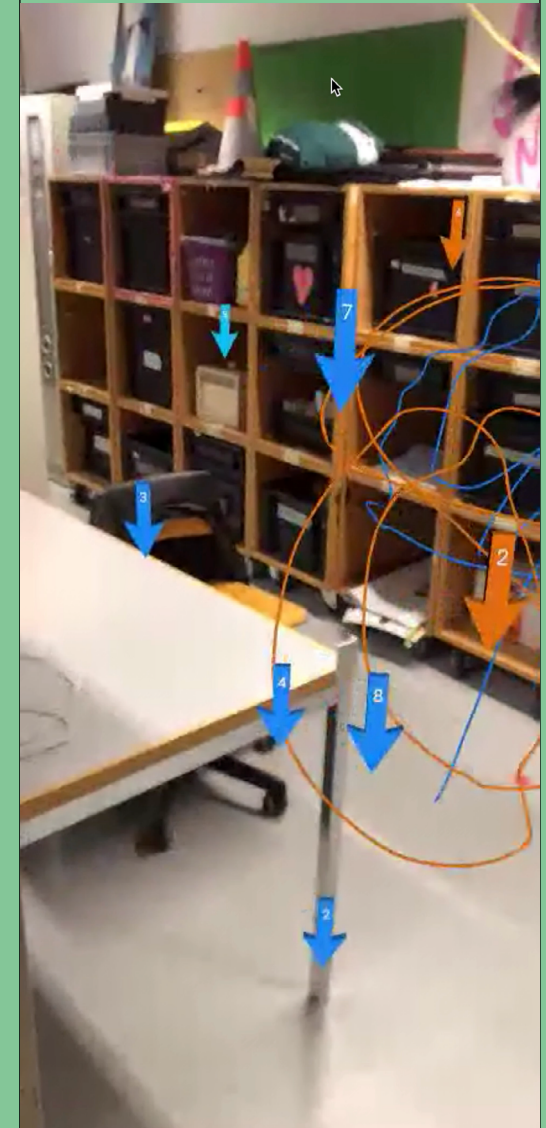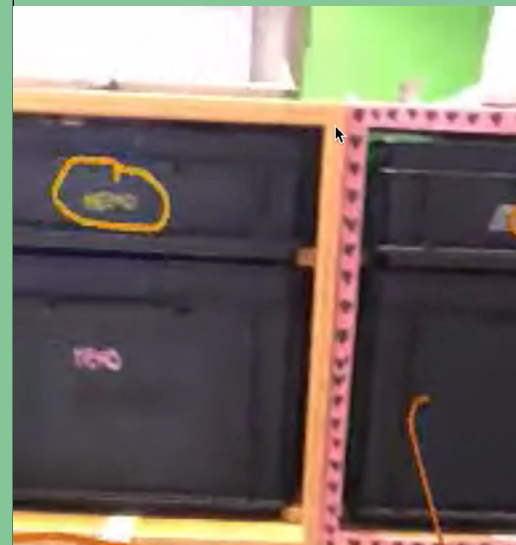-dust proof and water resistant

Teamviewer AR

Pros:
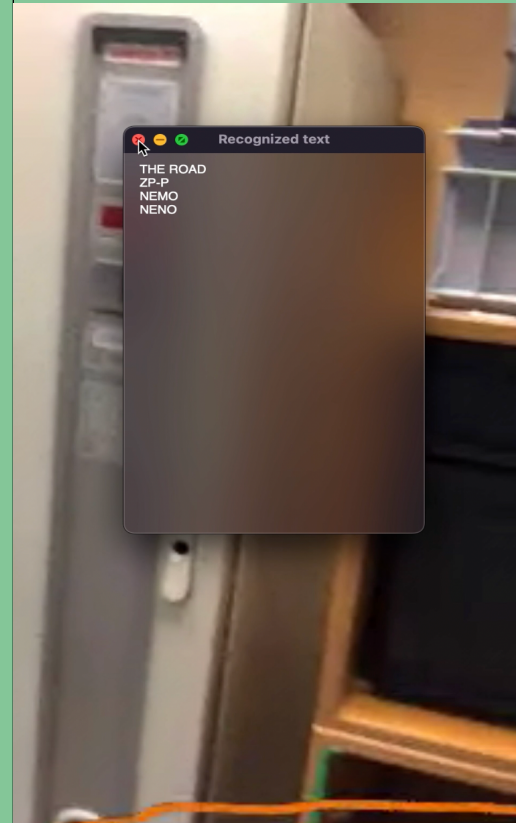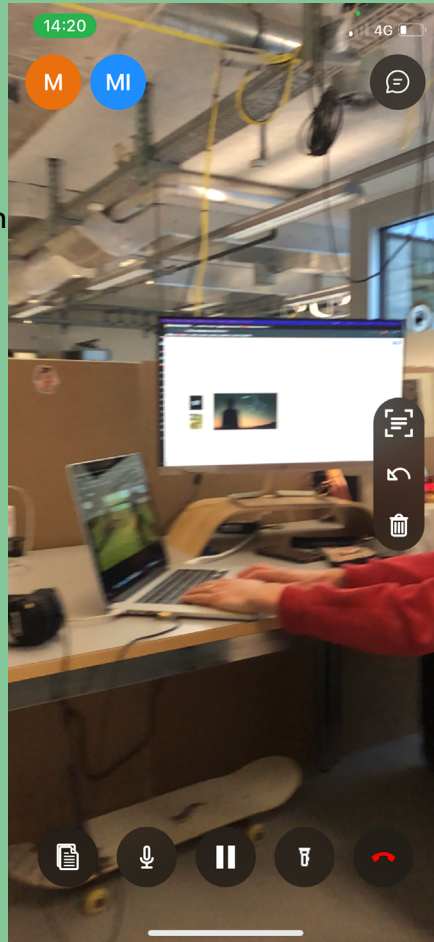-easy to use intuitiv interface
-group calls are possible
-when you press on a local you can immediately place arrows in your color and with numeration (works the best on edges not moving objects)
-the program understands depth
-you can scan text and send them to the "remote person"
-the draw function is not only flat but also in a 3D perspective
-compatible with most existing smart glases
-file sharing

Cons:
-no web app

What to implement:
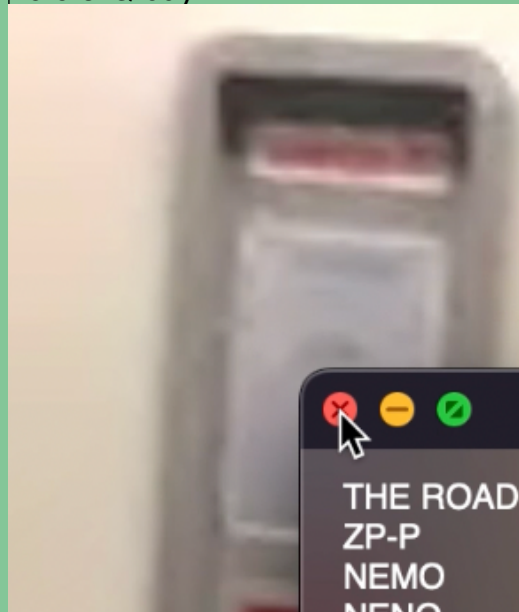-group calls
-file sharing

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Recognized text

THE ROAD
ZP-P
NEMO
NENO

HoloLens 2 (hardware)

-mixed reality glasses
-specialises implementation in the work field
-rather expensive
-equipped with lots of sensors to enhance the immersion
-hand tracking: Two-handed fully articulated model, direct manipulation
-eye tracking: Real-time tracking
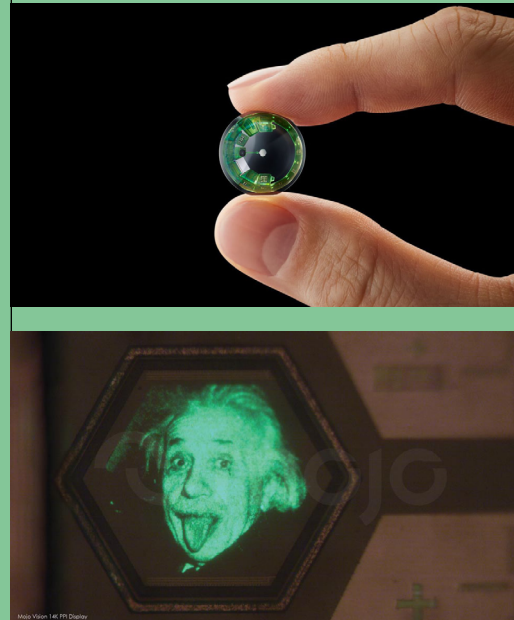-voice: Command and control on-device; natural language with internet connectivity

https://www.microsoft.com/en-us/hololens/buy



Mojo-Lenses (hardware)

-contact lenses
-mini-display in front of the iris
-display with 14k dpi
-lens is connected to a necklace-like device around the neck
-necklace device connected with
-smartphone
-focus on displaying information rather than interaction with the displayed graphics
-counts as medical device
-enhancement of vision even at night
-various fields of implementation

https://www.mojo.vision



Oculavis (software)

-video and Audio in Full HD
-multiple attendees in team calls possible
-AR overlay
-whiteboard functions on frozen frames
-full control on camera, microphone and flashlight

https://oculavis.de/de/start/



Glass Enterprise
Edition 2

Almer

What to implement (need):

-file sharing
-zoom option for glases
-data management
-ruggedization
-mobile app
-editing option for shared files/fo-
tos (expert side)
-freeze option in call

What to implement (nice to have):

-group calls
-markers that stay in place
-adjustable screen
-distinguished physical buttons
-hard hat compatible
-hover option for buttons
-camera stabilizer