Final Project

Research & Scenarios

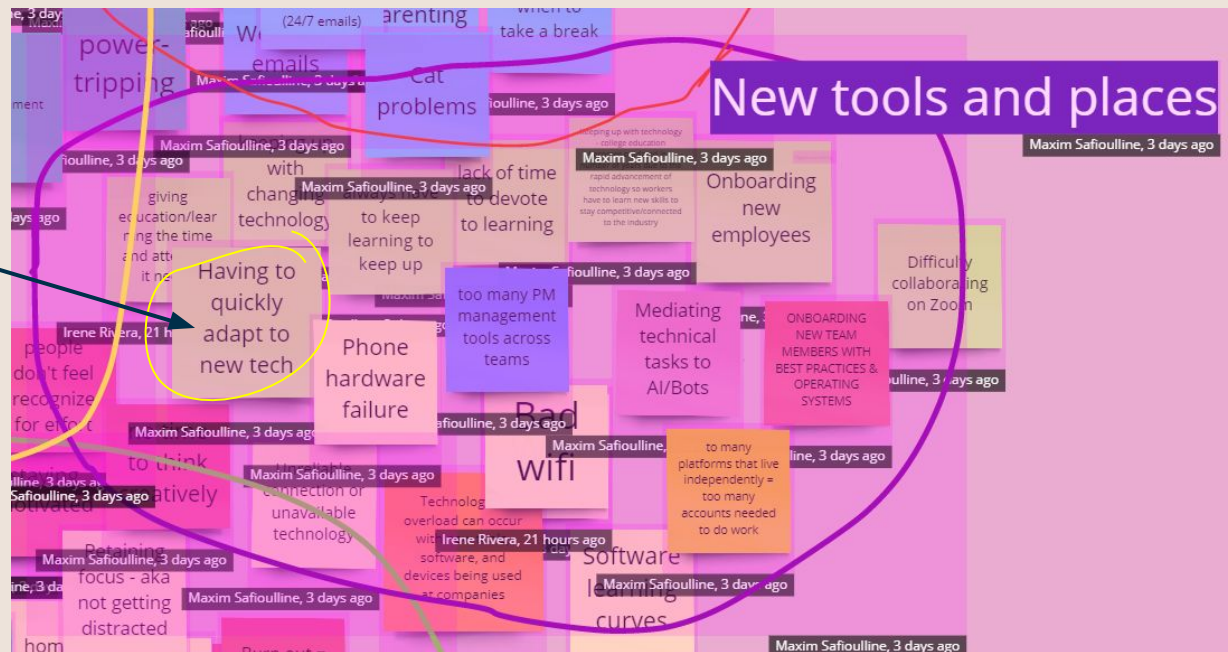Eduardo Sebastian Paz, Jennifer Morehead, PJ Rodriguez

Project Brief

The pandemic has forced many people and many companies to re-evaluate what "work" looks like. In the time when most knowledge-based work is done from home the productivity has grown and meetings became more inclusive. At the same time the number of those meetings has increased and all the workers, on all levels of the hierarchy, complain about the "Zoom fatigue."

When the workspaces (and study spaces) reopen a lot of people will be able to compare this "remote" and "on site" experiences and draw from them to imagine a better way to work. This will require rethinking many of the tools we have been using: meeting and conference room set-ups, communication platforms (both software and hardware), spaces for collaboration and co-creating. For this design challenge I would ask you to re-imagine what a collaborative process could look like - what tools we would need, what processes could we implement, what methods could we employ to create a better setup for co-creation.

Topics

Specific focus

New tools and places

Lenses →

Technology
AR for learning

Media/Design
immersive environment painting

Society
tiktok stitch and duet engagement

AR for learning

Ideas
- Visual and audio immersion, audio assistant to guide AR experience
- Eye tracking interface to anticipate user actions
- Contact lenses
- AR glasses as a companion to help aid virtual learning
- AR Rubik's cube -> solve puzzles use case
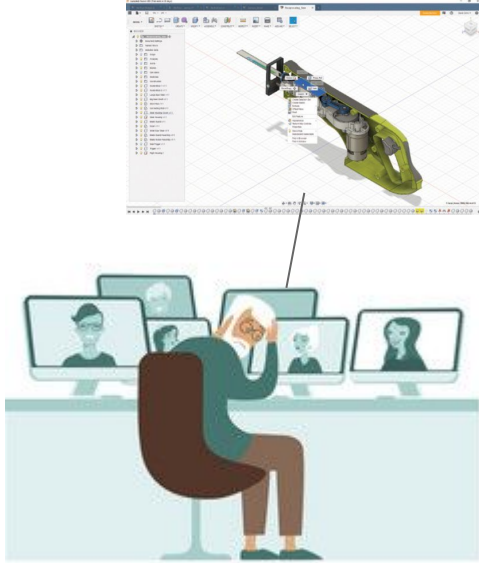- Presentation enhancement (meetings, workshops) extended visuals

Concept
- New employee onboarding, glasses show them how to do the tasks of his job
- All students in a distance learning class have the glasses so the teacher can better help them visualize the curriculum (science, anatomy, 3D modelling, data viz)

Scenario
- Richard, a Product Design professor at SMC, is trying to teach his students how to use Fusion 360. He notices they that many are struggling to understand the workflow. As a trial, the school sends the student a set of AR glasses. When they log into class, they can see Richard teaching as well as a 3D visualization of the model he is working on in their home space. They can better visualize the concepts he is explaining and even walk around the model to see it from different angles.

Frustrated teacher trying to show how to teach Fusion 360 remotely

School sends AR glasses to the students in his class

Students can follow along with an AR visualization of his lesson to aid in their learning

VR Painting & Design

Ideas
- Writing in space
- Teaching people how to write pictorial languages such as Japanese
- Virtual skills workshops

Concept
- Teaching story artists and environment painters how to create environments in 3d in a virtual class experience, remotely
- Teaching writing of picotral languages by drawing them in space

Scenario
- Sarah is an storyboard artist and environment artist. She is going to work on a new animated film. They are starting to use VR to create the environments to improve collaboration across departments. She attends the company virtual immersive workshop to learn how to reimagine her sets in a 3d space.
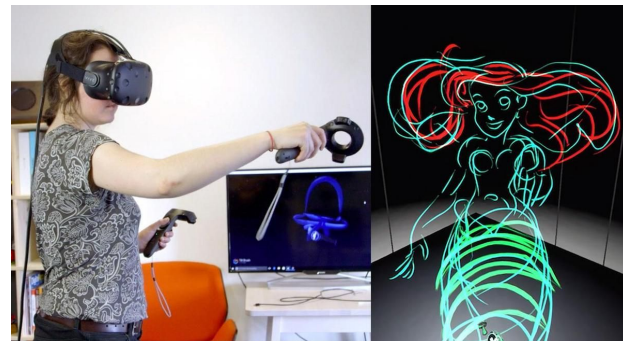
Sarah is a storyboard artist starting a new job on an animated film

The studio is experimenting with VR pre production and holds a virtual training session

Sarah continues to practice in VR trying to translate her 2D drawings in a virtual 3D space

Scenario | Immersive Painting

Social Media Skills

Ideas
- Eye tracking interface to anticipate your interests
- Question: How to learn how to use the app vs how to enhance what you learn on the app?
- Voice companion to teach you how to use social media platforms
- How to improve: Linkedin, Linkedin Learning, Linkedin Live, possible digital business card?
- Improve usage, understanding and efficiency of co-working apps such as Slack
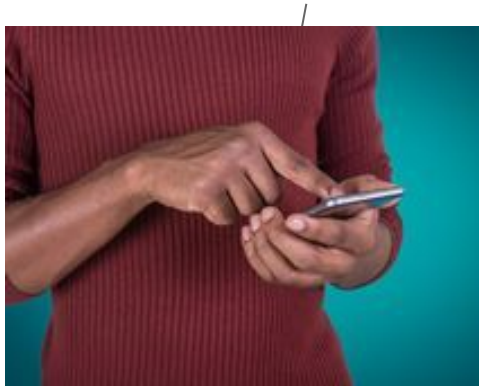
Concept
- Linkedin onboarding
- A better Slack or Slack meets zoom
- Social media platform for sharing work skills -> companion ai earpiece that listens and coaches (perhaps facial response analysis via a smart mirror
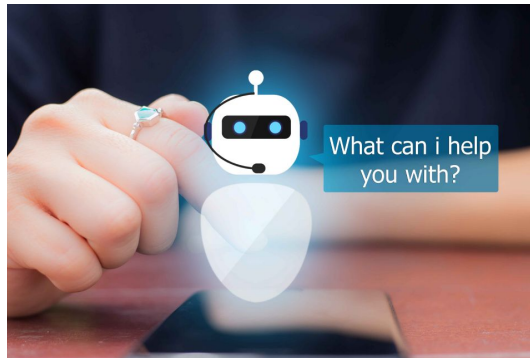
Scenario
- Darius is trying to up his sales and marketing skills and joins a new social media skills network called upskill. After choosing his preferences he selects a talk on persuasive negotiation. He is inspired and uploads the speakers ai coach bot to his earbud. When he goes to his next sales pitch, he is guided on how to better navigate the conversation.

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Comparative Technology

AR for Learning

- AR Use cases for College Classrooms
- Mind Labs tabletop learning games
- AR books

Immersive Painting

- Gravity Sketch: VR set design & storyboarding
- Building a set in VR
- Adobe Medium

Social Skills

- Bug in-ear coaching
- Ai Coaching app
- Rocky AI coaching bot