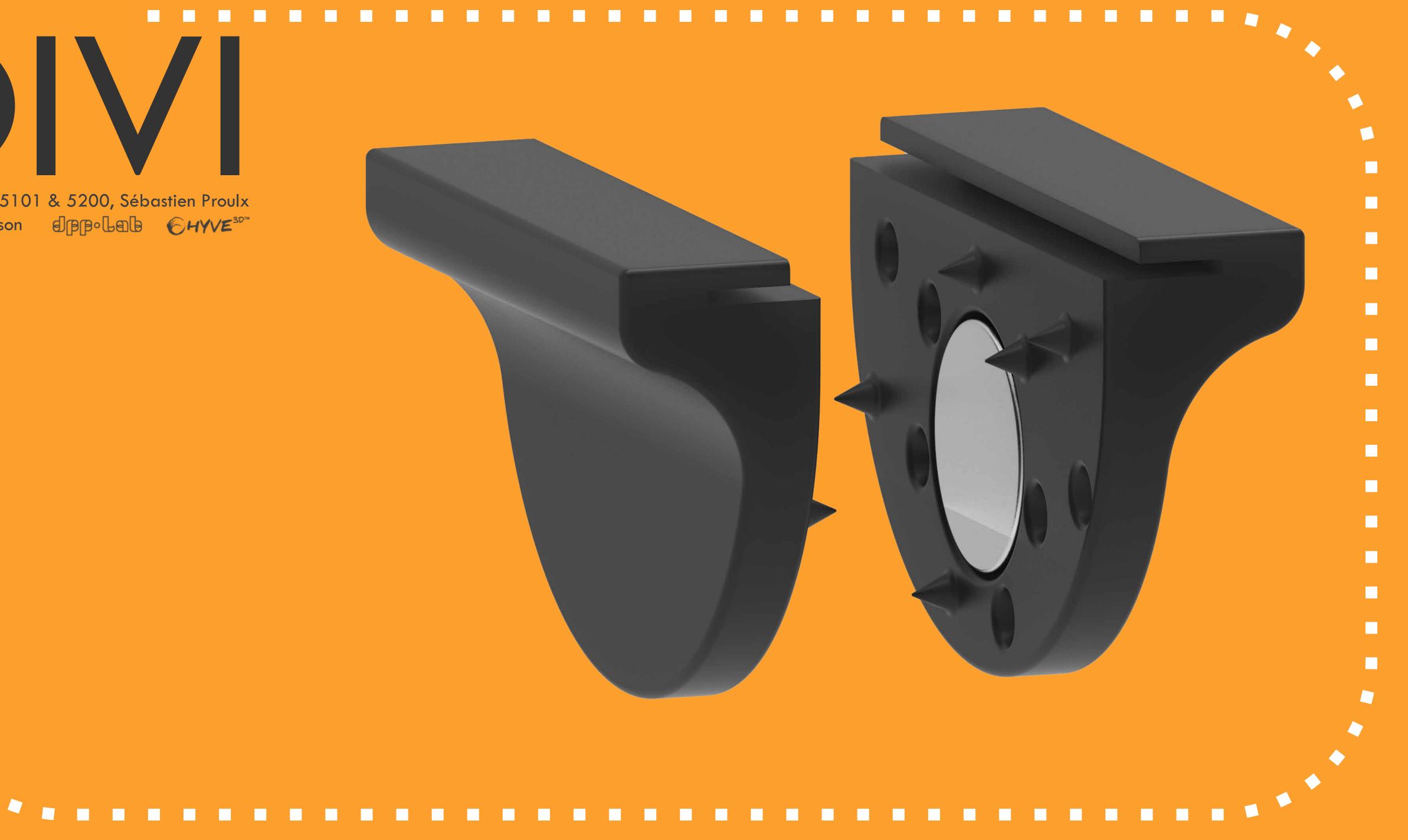
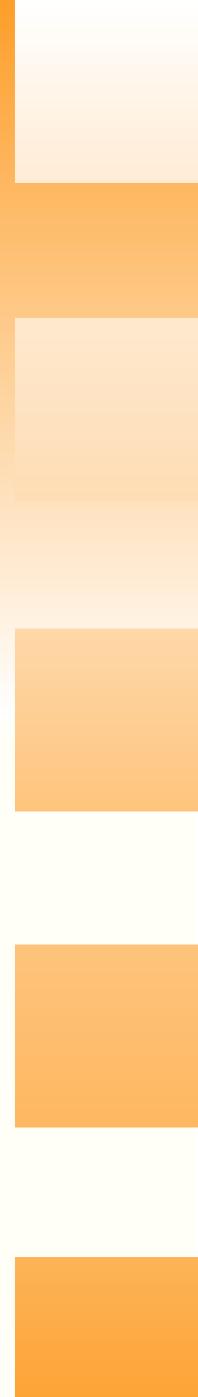
AU22, Design 5101 & 5200, Sébastien Proulx Mychajlo Johnson

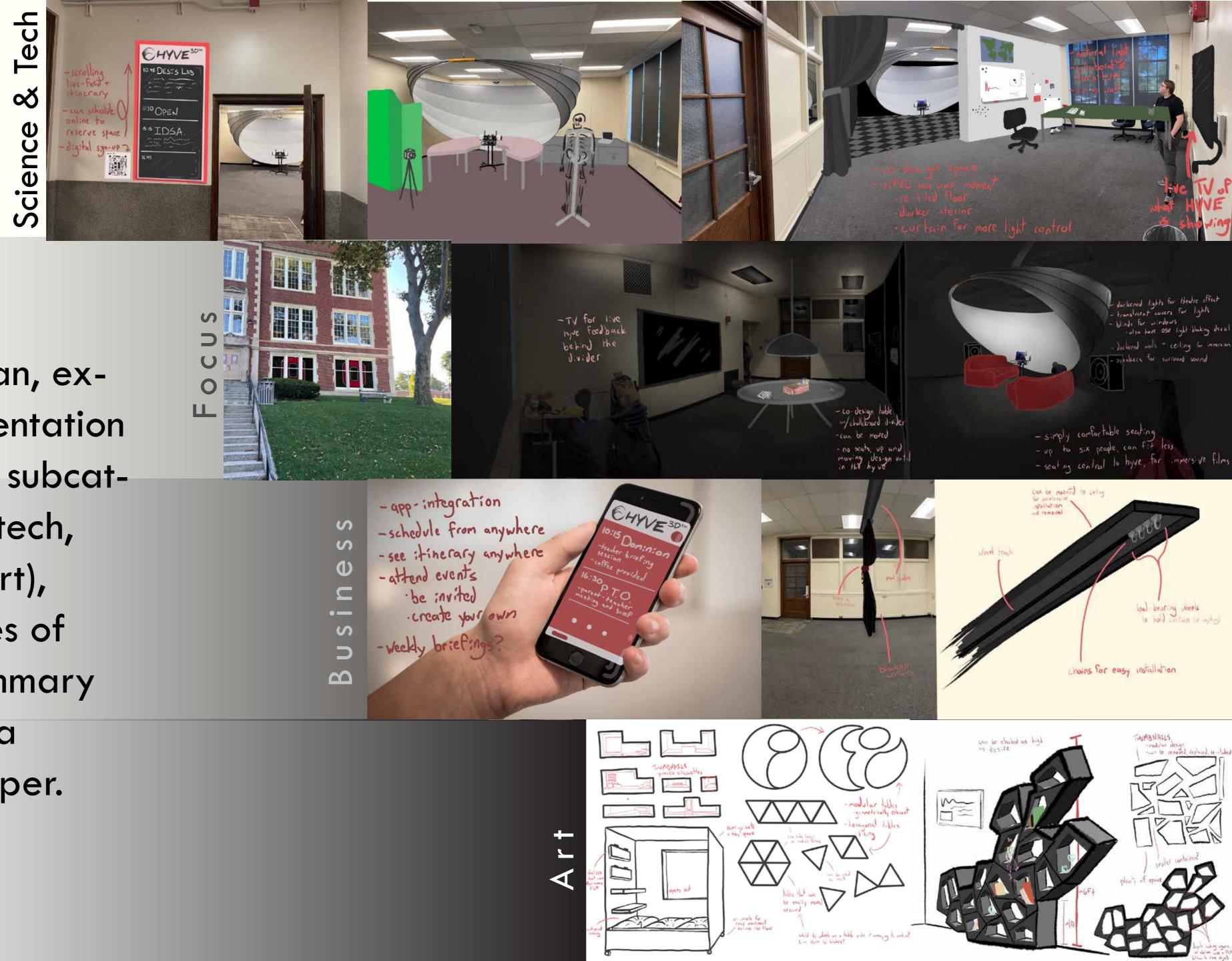
 \diamond



Partnered with DESIS Lab and hosted in Dominion Middle School, the HYVE-3D is an immersive alternate reality experience.

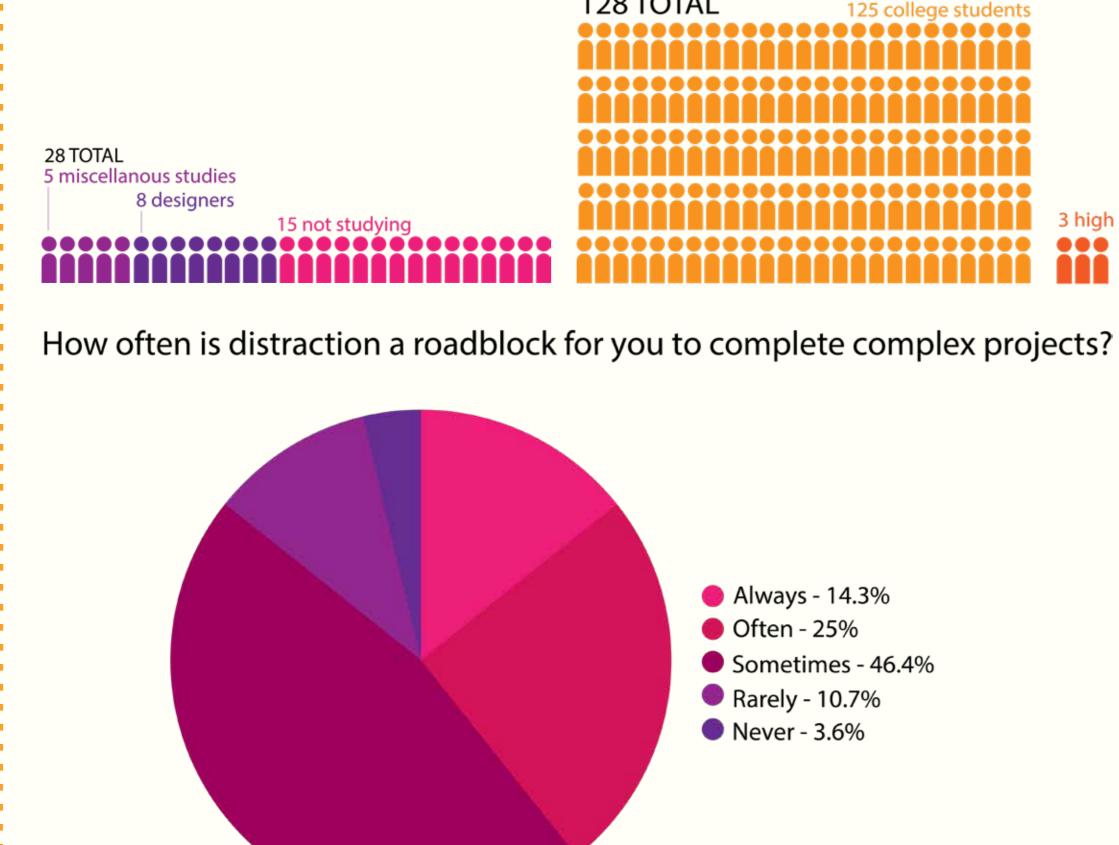
In 15 weeks research, design, and synthesize a solution that creates a nonintrusive room division system capable of creating dynamic space. The result should be a cost-effective and minimally involved environment creation tool that can be easily put up and taken down. It is aimed at event organizers, educators, and coordinators who may be working independently. Solutions should retain the spirit of the client's visual brand language.



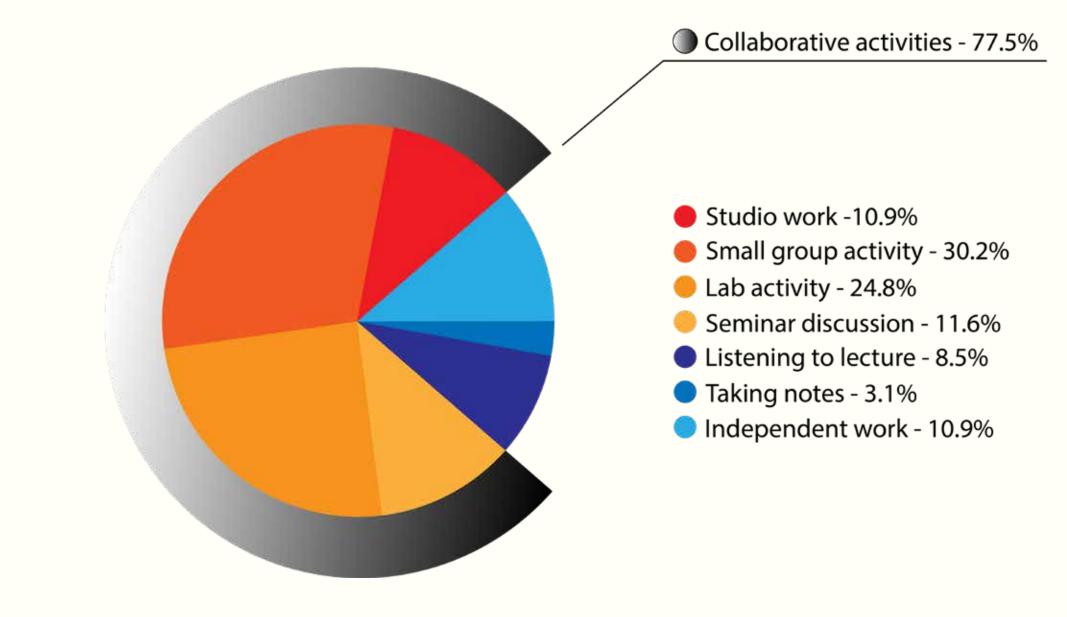


Before research began, exploration and documentation of articles within four subcategories (science and tech, focus, business, and art), helped create a series of conjectures and a summary op-ed culminating in a pre-research newspaper.

How comfortable would you be exploring new technologies such as Virtual Reality or Augmented Reality? Two surveys were sent out to gather data 35 on group dynamics. With a total of 156 Very Comfortable - 31 30 Comfortable - 28 responses, the data collected helped 25 Indiferent - 29 Uncomfortable - 22 20 inform future research plans. • Very Uncomfortable - 19 128 TOTAL 125 college students 8 designers 3 high school students 15 not studying 1 non-student



Remember a class activity where you felt very engaged. What activity where you doing?



A primary research plan was created and a series of co-design activities (take-home work, provotypes, conversations, and collective visioning) were completed with OSU design and architecture students. Additional versions of the take-home activities were also created for the communities directly involved with Dominion Middle School, but were unsuccessful in getting their response.

| DESIS Lab Take-home Johnson 7643 Stefanski 24 Strazinsky.3 | RESPONSE Please describe how you would create a lesson plan involving the HYVE-3D. | RESPONSE Place crate unit in the Parallel |
|--|---|---|
| QUESTIONNAIRE After watching the video of the HYVE-3D, list three ways you imagine yourself using the HYVE. Please fill out the following: Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself using the HYVE. Imagine yourself usi | | Please create your ideal maker's space within this floorplan: |
| | SKETCHING AREA | |



DESIS Lab Primary Research Plan

Mychallo Johnson · AU 2022 · DESIGN 5101 & 5200

ITRODUCTION

his document is a step-by-step outline of the research ethods planned to be utilized in the preliminary phase of a to-be senior thesis. The document includes:

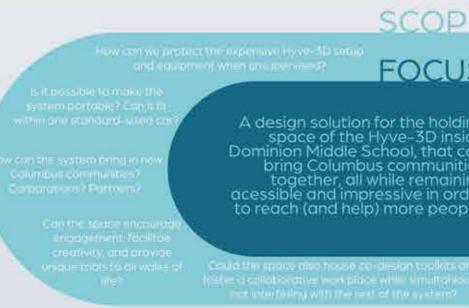
- Preliminary research
- e primary and secondary
- Participatory design methods and experiments estionaires, surveys, and take-home work
- first-hand user observatio

- small and large scale space ma
- Anticipated deliverables
- A timeline of events

GOALS

- Discover how best to design a space that will encourage people to engage with the space in a beneficial way.
- Create an accessible, enchanting, and safe space around the Hyve-3D in Dominion
- Middle School to be used by various communities around the Columbus area as a
- place of collaboration, exhibition, and gathering
- Keep the budget under \$2,500.

SCOPE & FOCUS



STAKEHOLDERS



RESEARCH METHODS Secondary research

Op-Ed articles and conjecture

 Take-home work Survey spoce awareness exercises virtuel. photo/journal submissions









FOCUS A design solution for the holding Dominion Middle School, that ca bring Columbus communitie ogether, all while remainir acessible and impressive in orde

SCOPE

The most directly impacted by this research will be the childr faculty, and staff of the Dominion Middle School, as well as DESIS La esearchers, graduate students, and volunteers. These stakeholde

> The community organizations select researchers will benefit more indirectly. Their involvement is less than the school, yet still an important subgroup to tend to in order to provide a spot for collaboration

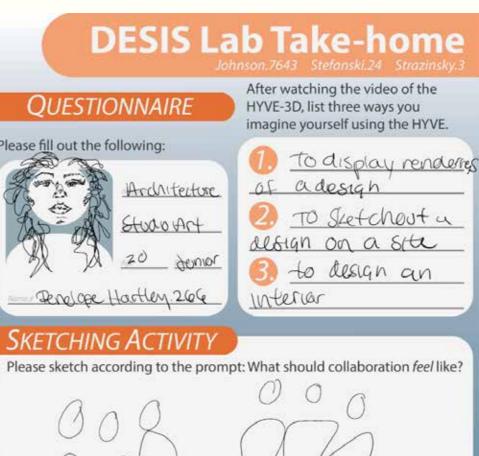
> > everyday Columbus citizen. Ideally, esource would be open and available to the public with enough growth and success accessible to anyone who needs it.



Phase i

D P a s o s o s

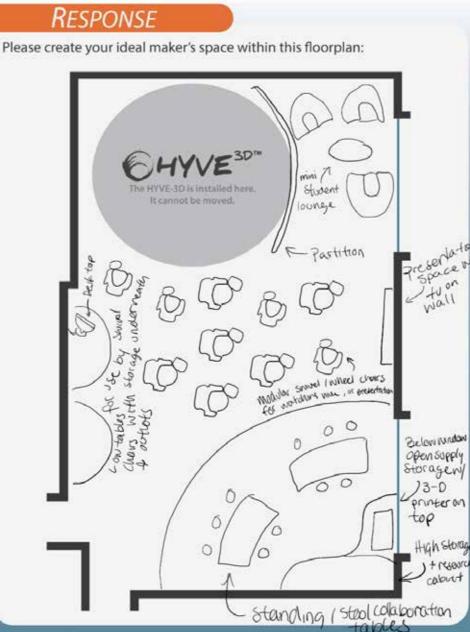
The results of the activities illuminated many pain points within the Hyve-3D system as well as minor improvements and major suggestions to help streamline the experience.





With this knowledge, a C-K map was constructed to segue into the second phase of research.

| | NK 5100 |
|--|---|
| - create finision of space to facilitate HVE user at sell as a variable space -starmaction from hirdle virdows -hight catrol from hirdle virdows - installed in Damision record 109 - installed in Damision r | - mil-curtains installed in space - nothing at all valls built - seni-petriceant valls built - room Juiders, reteat-ble systems - byt Jähsers/Jetlectors - furniture design and implementation - furniture design and implementation |
| - a room-dividing system that can be rearranged by children and adults - individual work-pode or space-pode & - stretchy - to-st ff curtain/wall system 00 - filling valls/platonic solids (on micric)) + maveable rooms and spaces | -private working spaces ye -collaborative working spaces of -TEDX performance spaces academic theatre - material considerations -material considerations -material considerations -material considerations -material considerations |
| -dividing space while remaining Free and open -have a variety of open/clear space and private space -storage in an empty, open room -design/prosentation/thrage spaces | Hick face shighly porces/ stretcy |
| Solutious | - cell suelle - rolling friction - cell suelle - rolling friction - caves/alrowers - plant sells (unle) - constrains some - samme cells (mendene) - ethicative - stime molds - faq (calt + consid) - transfer of resources in some in - intra-effective strainable lises - la hitsiciaht, stretchy ething interna |
| REQUIREMENTS TOUCH - Error - Sound - OSHA noise: work ratio - shand - wonf? reduction - SAFETY - arguitice that system - ADA rear to | verget the the link without vert all |







Observation first-time Hyve-3D

 Conversations and interview Hyve-3D experience Collective visioning

Dollhouse a co-design toolkit will

be provided (from Liz)

 Lorge/small space mapping a done on-locotion or at bothe

Post-Research

After research is complete and presented eedback will be incorporated into a plan o move forward with the creation of my

HE PLAN

Pre-Research

anolitie Willing will inform

chome packet w them into the correc d souce for Phase

participants - post-Hyve-3E optnered in this phase odether

> This phase will be heavily documented

CHEDULE

oin Pre-Researc

Week

Week 5 Conclude Phase II Continue Phose II **Dresent Pecha Ku Organizé** data

Week 6 Conclupe Phose Anatyze data Create Res

NTICIPATED DELIVERABLES

| esearch Presentation | |
|------------------------------|-----|
| detailed account of plan | 6 |
| Pre-Research | |
| secondary research | |
| participant recruitment | |
| Phase 1 | |
| data collected and organized | 1 |
| Phase II | |
| documentation on methods | |
| -data organized and analyzed | ÷ |
| Phose III | e |
| deeper analysis | |
| visualization | |
| Post-Research | |
| -incorporate feedback | |
| start working on thesis | |
| present | . 4 |
| udget | |
| cost of materials | |
| cost of software | |



Phase III

- Observations o
- nterviews will be concueted with t
- exposure The group w then collectively vis

Phase II

molled of Dominin Middle School will be

given an option of a large or small scale space mapping, depending on their

Phase II, and Phase II analyzed and compl



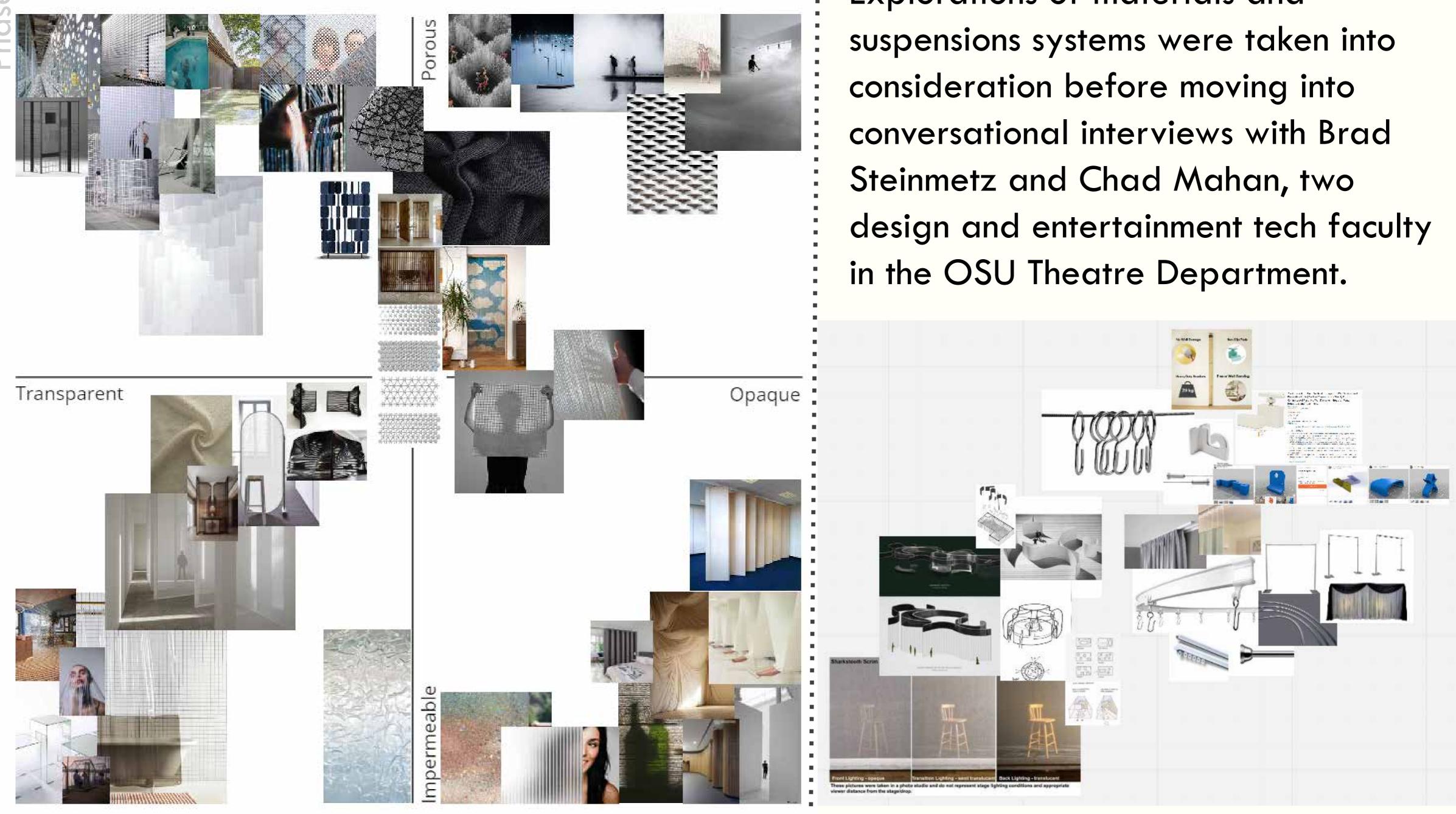
CONCLUSION

olancing the limited capacity of th ve-3D is a challenge, not made an er by inclusions of finer details lik hashiness, a strong visual brand anguage, and above-and-beyon accessibility. Over the course of the next seven weeks as this research nfolds, working with the client is of ist importance, not only to acces the space and get our hands on the technology, but to deliver an exemplary result



Iteration and scale models illuminated the various possibilities of room layouts. Instead of picking a permanent solution, the client opted for more freedom in setting up the space however they saw fit.



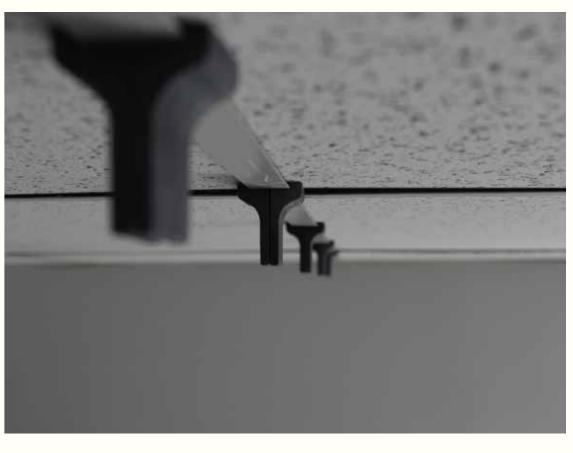


Explorations of materials and

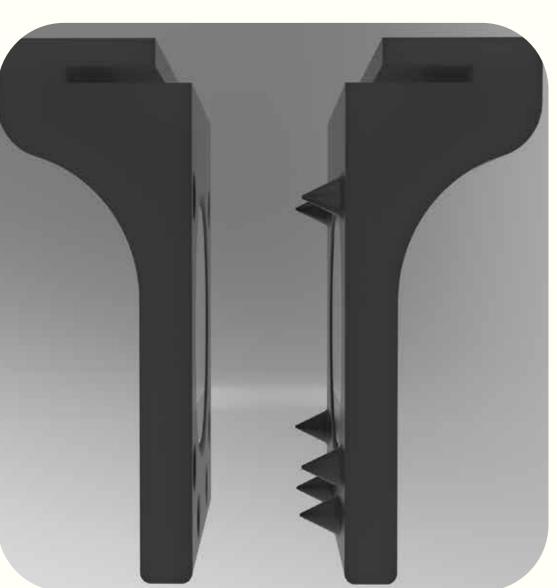
×2 bedeted edge to make putting up curtain easy (11/ 2001? 'pins' to secure cloth inside Inn 40mm lace for finger + through 30mil clips set chamfer for ease of access to magnets and combo orientation install assistant tool curtains to be

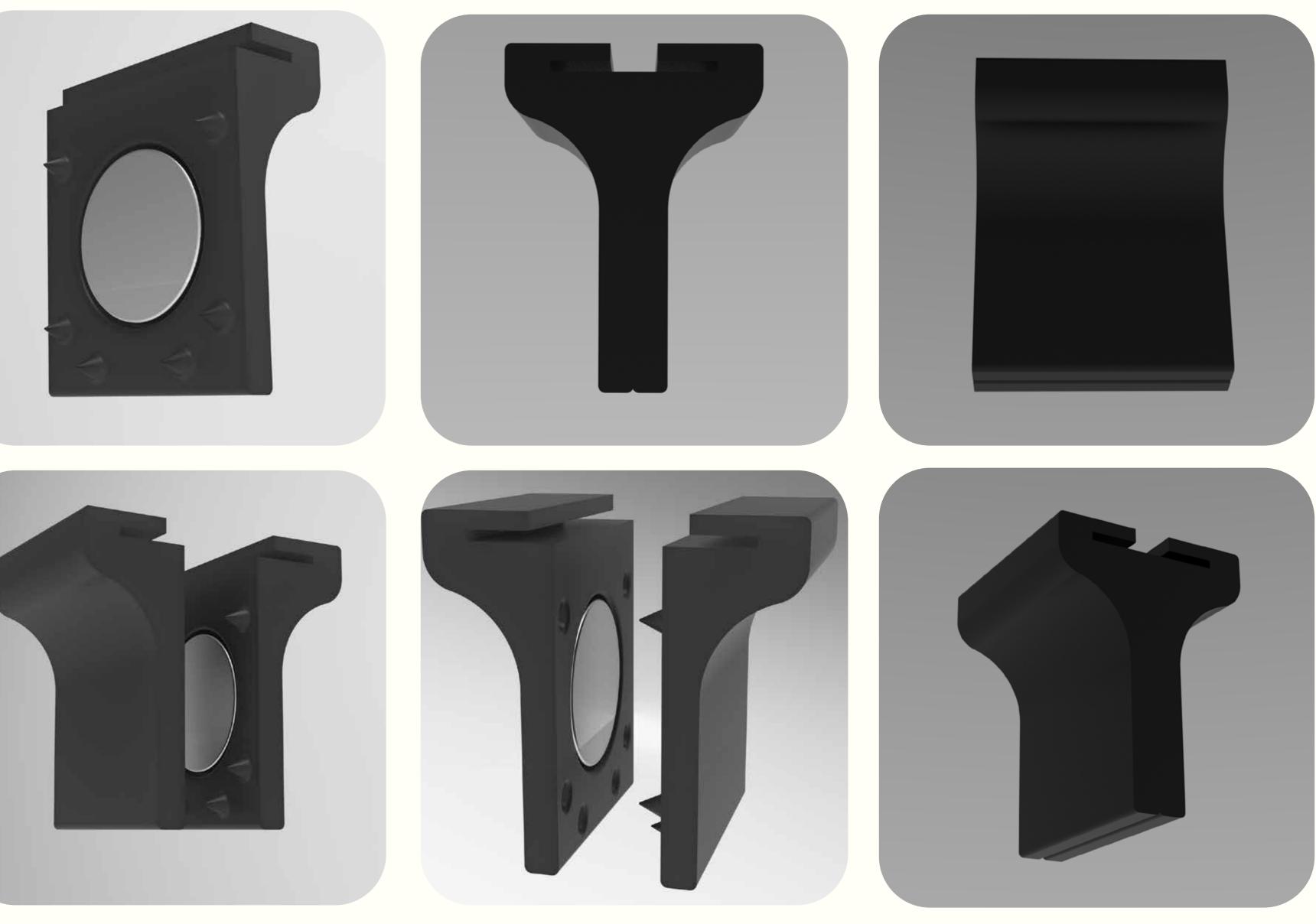


After meeting with the client and discussing research, DIVI began to take shape and early prototypes were 3D printed, tested in space, and improved upon until reaching a more finalized design.

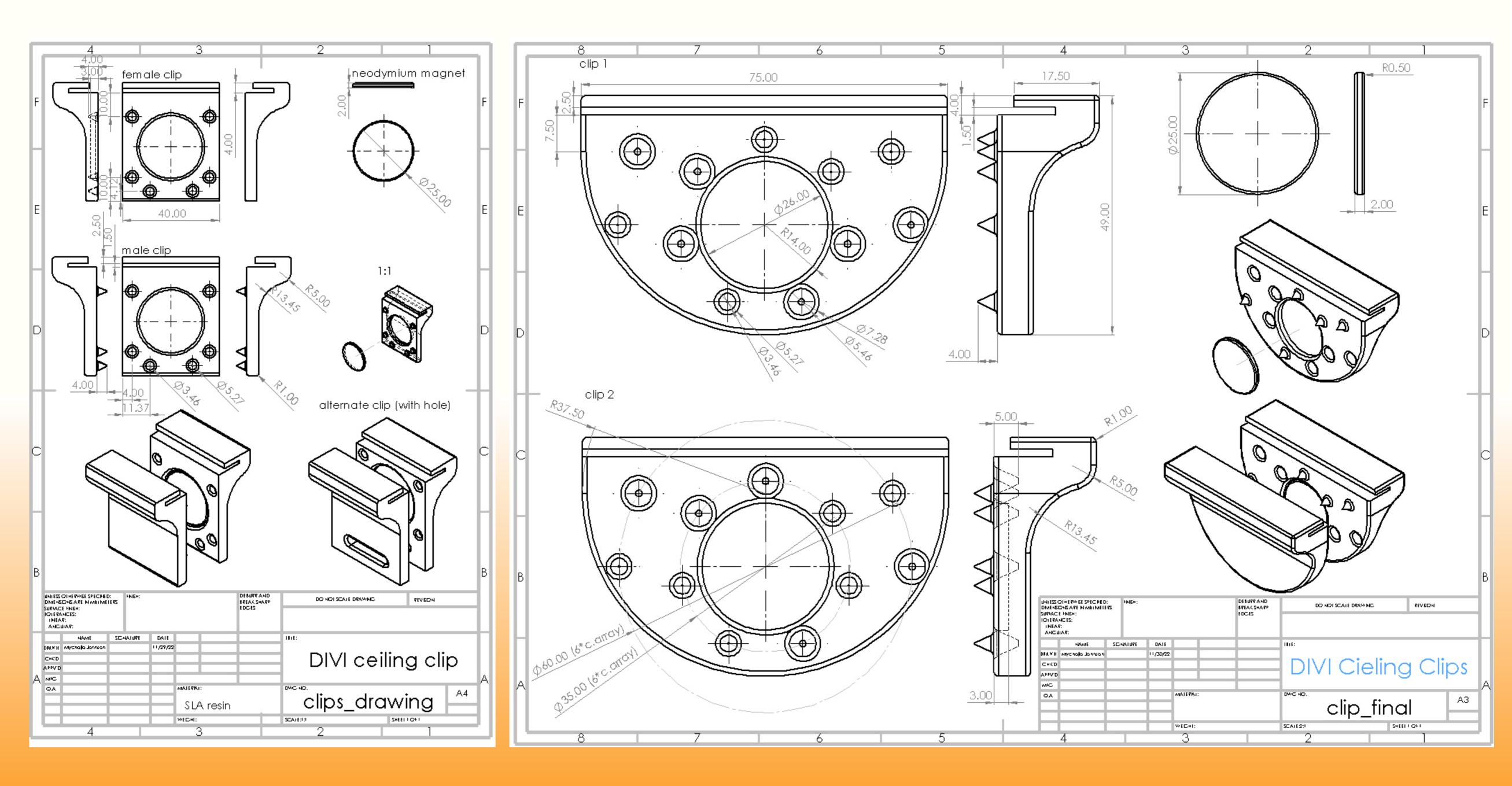








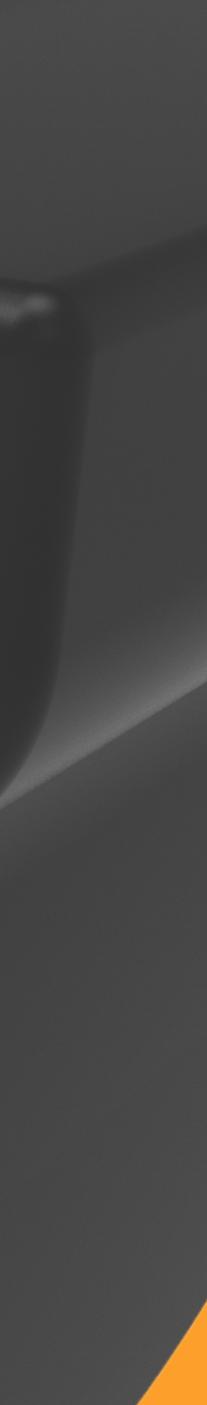












D

install onto any drop ceiling





clamp clips onto desired material





any material, any weight any space

> curtains can be removed and DIVI left installed for easy and painless set-up, tear-down, and material switching