Product Design Notebook

# Brainstorm:

1. Exoskeletal Lifting Assist.
2. Panic Button Flash Drive
3. Rolling Storage Desk
4. Recoverable Panic Button Flash Drive
5. Classroom Controlled Screen
6. Virtual Studio Set
7. Music and Players Service
8. Hidden Table Glass Filler
9. Translator Driven Conversation Service.
10. Page Addition Scanner Printer
11. Internal swapping flash drive

# Concept Research:

## Prior Copyrights:

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| Product | Description | Manufactured | © |
| Exoskeletal Lifting Device | A pneumatic or electronic exoskeleton which moves with the user’s movements, but has a much higher weight capacity, and thusly does not strain the user to lift materials. | Currently common concept, even starting to sell.  No patents however. |  |
| Panic Button Flash Drive | A flash drive wither either a button or keypad code that immediately wipes the drive when activated. |  |  |
| Rolling Storage Desk | Uses internal space and storage of a solid or partially solid desk as a rotating holder for equipment or other swappable items.  It would retract the current panel into the desk, and bring up a different one, such as keyboard to joystick swapping. |  |  |
| Recoverable Panic Button Flash Drive | It either a. dumps to a secondary storage that must be recovered in some way, or b: completely disconnects the USB portion from the circuit board, making the flash drive appear dead. |  |  |
| Classroom Controlled Screen | A screen which, with all of the students having pointer type devices, would show the currently highlighted location, or even enable controls depending on the teacher’s currently selected settings and person. Possibly add laptop tie-in support. |  |  |
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| Hidden Table Glass Filler | A table with a small hidden circle, which, when you set the glass on it, it lowers and secures the glass. Then it refills the glass and raises it back to the surface.  Probably uses sensor suspended in the glass, either permanently or only during filling. |  |  |
| Page Addition Scanner Printer | It scans the paper as it passes through for any content that is already on the paper, and only prints what the paper is missing. |  |  |
| Internal Swapping Flash Drive | Much like the recoverable flash drive, with the push of a button it can switch between two memory sets. This could be useful for a great many people, especially people with organization issues, or who want to hide something. | Can’t find the concept, probably too expensive for feasibility. |  |
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## Feasibility

## Applications

## Materials

## Manufacturing Processes

## Packaging

## Pricing and Costs

# Design Idea Iterations

## Internal Swapping Flash Drive

1. Drops the board and places another on contacts.
2. Changes the contacts around.
3. By rotating the head of the flash drive, you establish connection with the other side and it looks the same. Needs lock of some kind.