

THE MOBUREAU

YOUR DESTINATION DRESSER

WANDERLUST, INC. - ANDREW TESSIER, AUBREY LOVE, SARAH LEGGE, AND JONATHAN DIETZ

PROJECT MISSION

Design a deluxe travel closet with drawers that is practical, stylish, affordable, and eco-friendly.

PROJECT GOALS

The project goals include:

- Using the engineering design process to design a portable closet that meets the needs of a frequent traveler.
- Research the needs of travelers, currently marketed designs, materials, configuration and functionality.
- Select a design concept and use Solidworks to create a 3D Model.
- Evaluate the success of our model.

PROJECT INSPIRATION



Psychic Factory's Traveler Closet inspired our design.

REDESIGN ADVANTAGES

Design improvements found in the Mobureau include:

- Space for long garments including coats on telescoping handle extensions
- Can be checked at the airport – meets FAA weight and dimension guidelines for checked luggage
- Zip front closure
- Telescoping sides and handle
- Rugged wheels for convenient and reliable transport
- Altered center of gravity to improve stability
- Improved style
- Increased storage and hanging space
- Eco-friendly materials

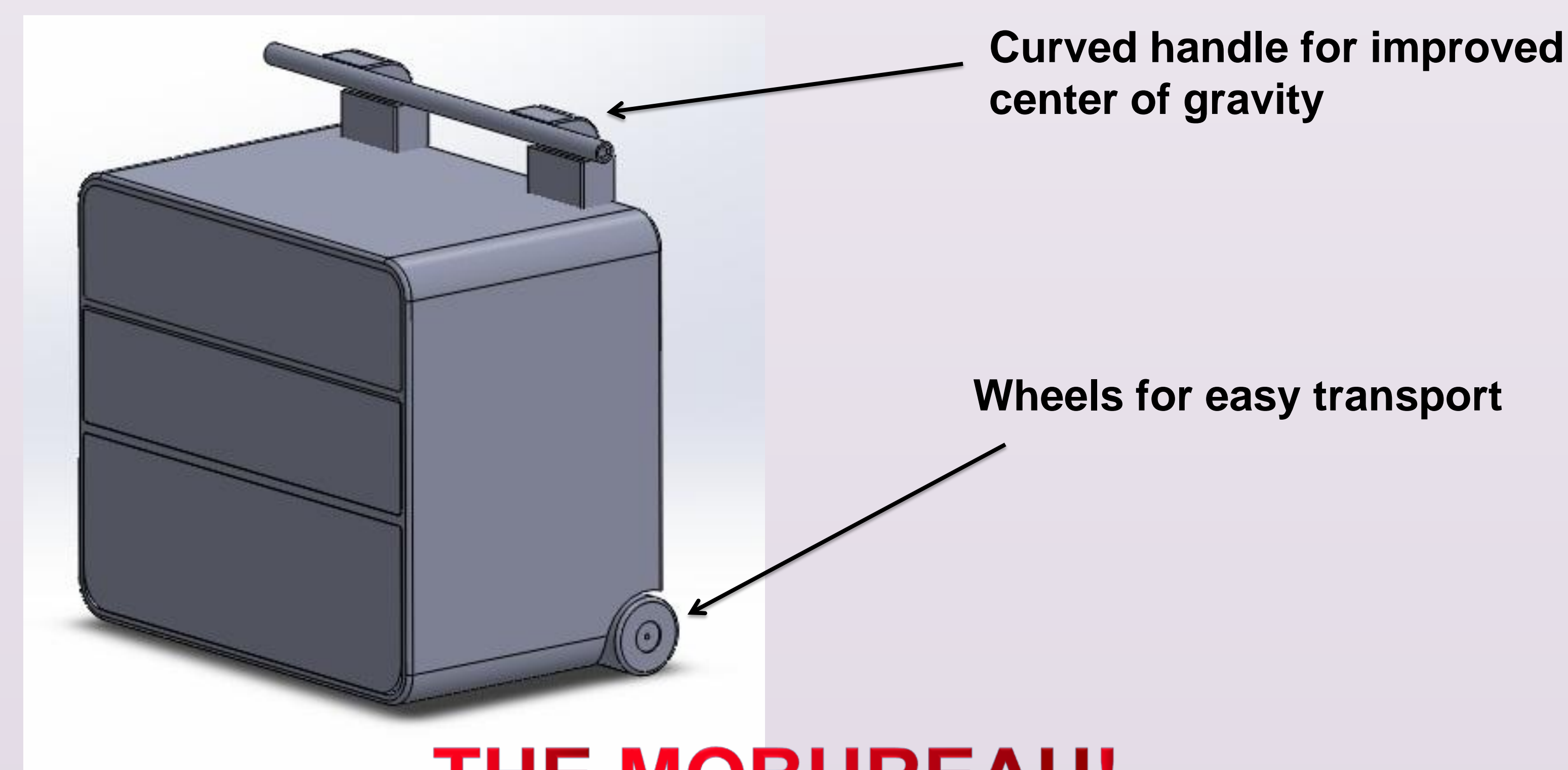
POSSIBLE SOLUTIONS

•The group discussed possible designs extensively before settling on the Mobureau design.

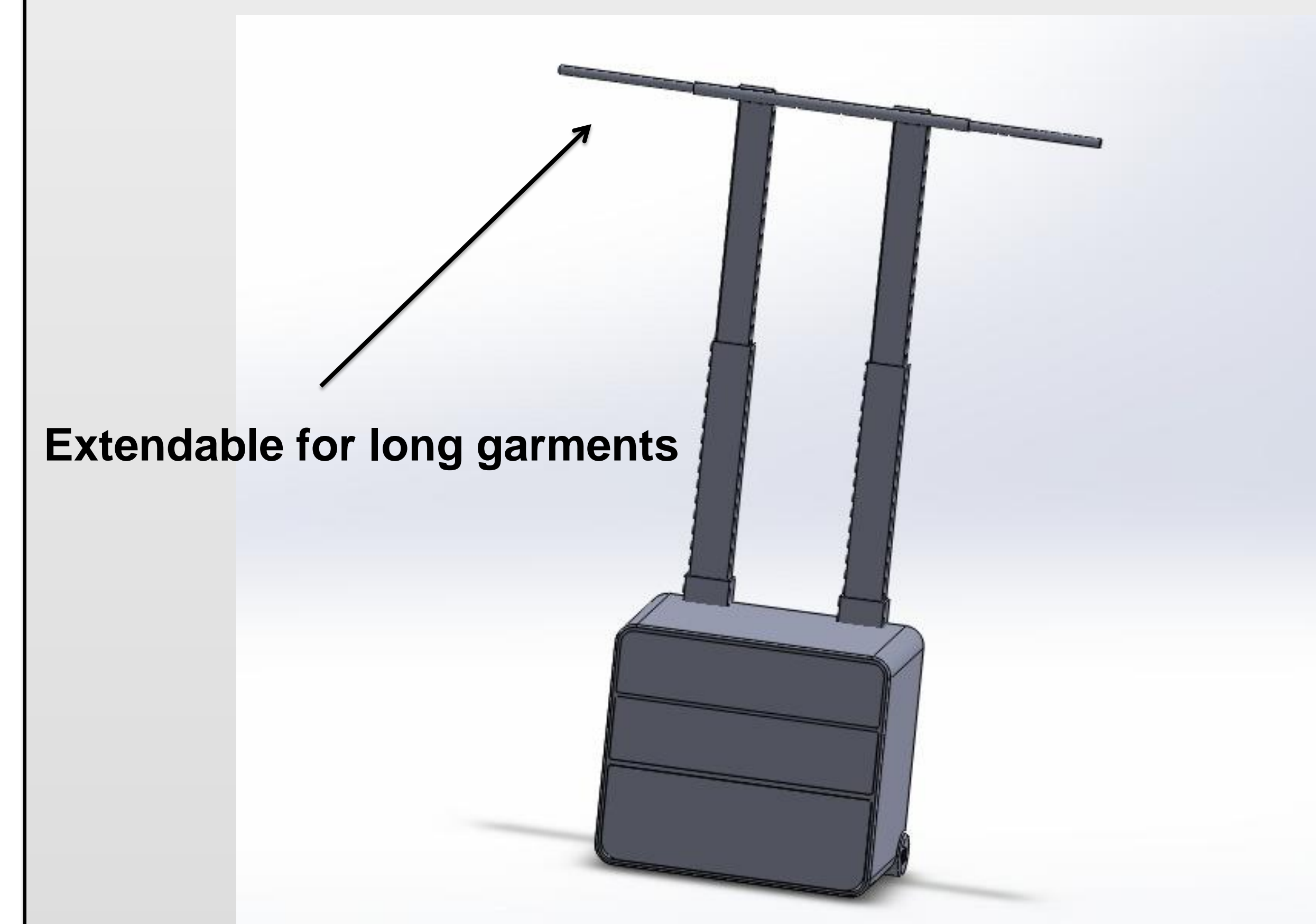
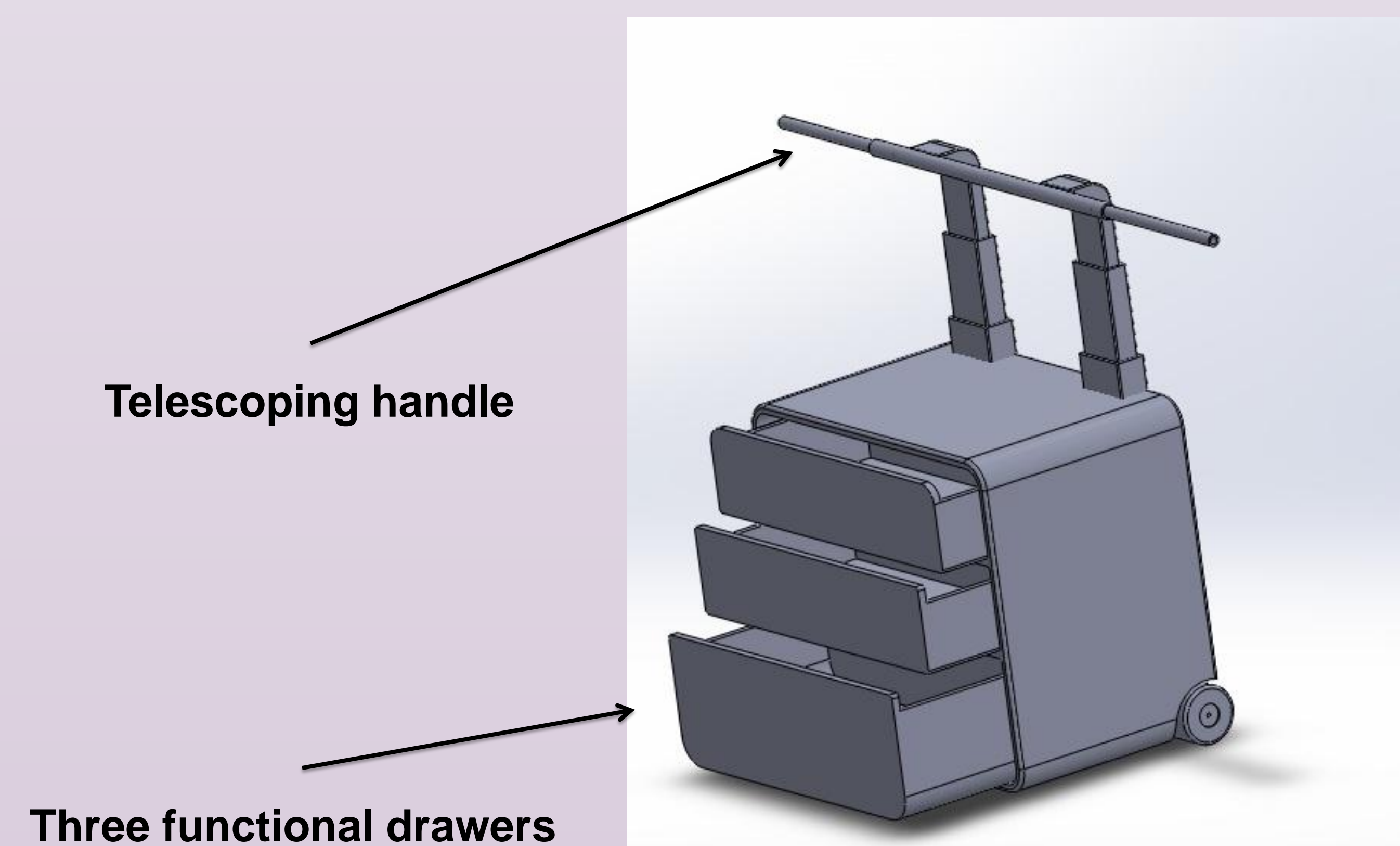
- A wooden armoire design was rejected due to weight and lack of portability.
- An intermetro shelving design was rejected due to need to assemble and lack of portability.
- An X-frame design was lightweight and portable, but too minimalist.

•Materials considered for the design included: wood, cordura nylon, aluminum, ABS, and polycarbonate. A majority of the materials will be recycled aluminum and plastic.

FINAL SOLUTION



THE MOBUREAU!



LESSONS LEARNED

- Exposed to many features of SolidWorks in a very short amount of time.
- Solidworks may be too complex for simple application or casual designers, but is excellent for engineers and ready-to-manufacture projects.
- Technical skills are learned best through scaffolding and step-by-step instruction.
- Patience is a virtue and time is your enemy.

