# PERAMBULATOR

DESIGN FOR MANUFACTURABILITY, SPRING 2022
INSTRUCTOR: JD ALBERT

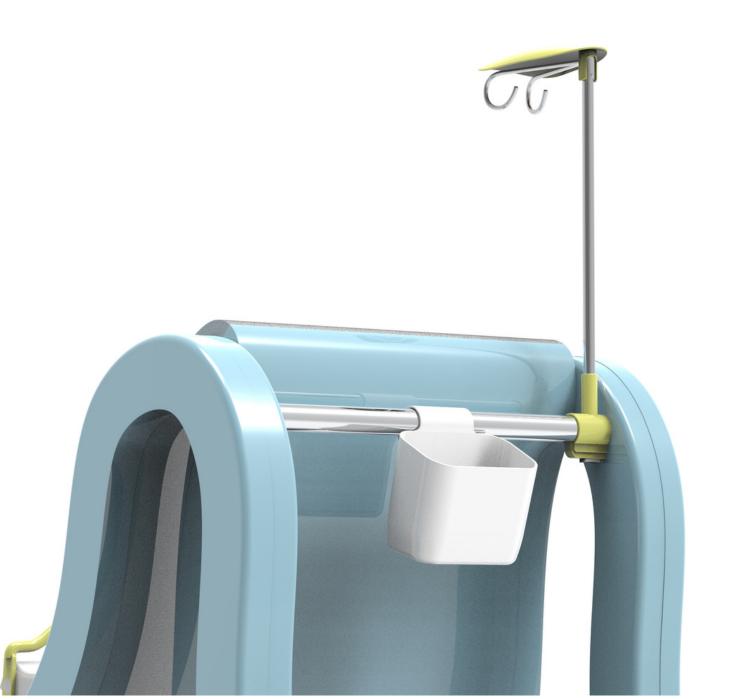
The Perambulator helps parents and caretakers easily move children around while remaining connected to an IV bag or tube feed. It prioritizes comfort for the child, while simultaneously providing easy access to medical supplies, storage space, and easy maneuverability for caretakers.

The Perambulator was designed and modeled with manufacturability concepts and methods learned throughout the course. Design decisions and material choices were made with manufacturability restrictions in mind.



## DFA CONSIDERATIONS

- Poka-yoke for frame alignment
- Reduced part count by combining seat and back into singular part
- Maximized symmetry
- Self-aligning storage basket



#### FRAME

Materials: ABS

Color: Pantone 551 C | #A3C7D2

Process: Injection Molded

Draft: 1 degree Uniform Wall Thickness

## SEAT

Materials: Polyurethane

Process: Molded

Density: 0.03 to 0.05 g/cm3

Attachment: Adhesive

### **BASKET**

Materials: ABS

Color: Pantone 11-0601 TPX

Process: Injection Molded

Draft: 1 degree

Uniform Wall Thickness

