



GNG2101 – One Handed Walker Steering System

Design Day Pitch

Team Z22: The Fast and Fabricating Five (FFF)

Agenda: Design Day Pitch

1. Empathizing With Our Client
2. Customer Needs & Problem Statement
3. Significant metrics
4. Overview of Concept Design
5. Demonstration
6. Lessons Learned
7. Questions

Difficulties with everyday tasks

Single parent

Cannot do full ROM movements

Suffers from Ehler-Danlos Syndrome (EDS)

Can only use 1 brake handle

Arm is kept in a sling

Imagine

Very dependent on 11-year-old daughter

Folding the walker is essential

Limited mobility

Often dislocates shoulders

Small apartment

Cannot depend on elevators

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Ehlers-Danlos Syndrome

Ehlers-Danlos syndrome can affect any connective tissue in your body, including your:



Cartilage.



Bones.



Blood.



Fat.

Depending on where EDS affects your connective tissue, you might experience symptoms in your:



Skin.



Joints.



Muscles.



Blood vessels.

Ehlers Danlos Syndrome

Adaptable

Convenient

Portable

Customer Needs & Problem Statement

The client requires a **maneuverable, lightweight, easily attachable** device that allows them to steer the walker **effectively** with one arm through narrow spaces and diverse terrain.



01

Portability

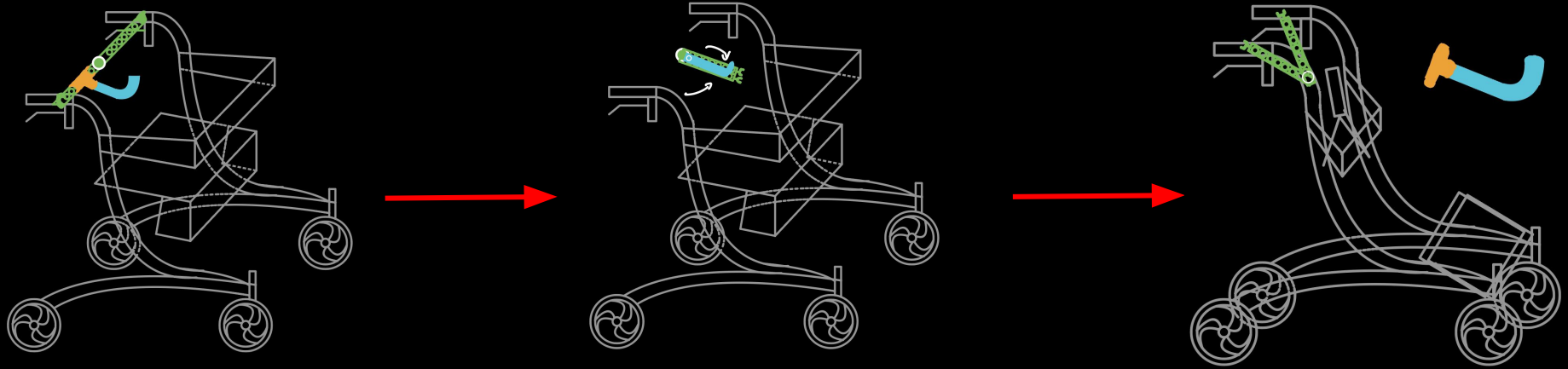
02

Steering

03

Use with either arm

How does it work?





**THE FAST
AND
FABRICATING
FIVE**

We wheely care

Questions?