

YesWeCanne

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Agenda

• Problem to be solved

• <u>Client's needs</u>

• OUR solution



What is the problem?

- Cane that can be easily handled by people with physical problems.
- Can be folded with one hand without requiring great effort



Existing solutions

Require great effort to fold

Require two hands to fold and unfold

Can be used in all weather conditions

Features of our product



Material

Aluminium for the 3 parts Steel for the folding mechanism Plastic for the handle and the base

Folding mechanism

No electronic parts involved

How does it work?





OUR Prototype

Aluminium tubes

3 square shaped aluminium tubes

3D printed handle and base

The system used is completely mechanical

No electronics

Why is it different?

Parts of the cane are replaceable

Fully mechanical system

Can be used in all weather conditions

Replaceable parts

- Cane handle
- Cane base
- Mechanism parts



Mechanical System

- Rod
- Blocking parts
- Spring and V shaped parts





The mechanism is made of PLA which makes it fragile.

The problems we have faced

We made some calculation mistakes and there are also some errors due to 3d printing, thereby the retracting mechanism does not engage in the right way



generating a fully working prototype was complicated due to the complexity of the concept



Demonstration

Questions?

