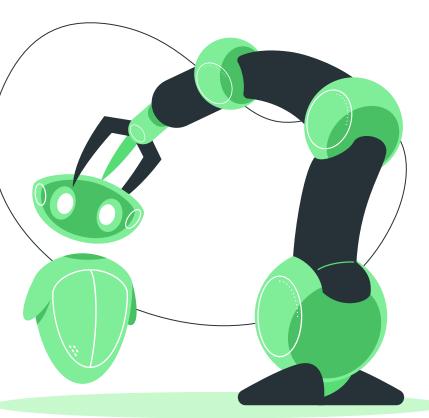
Handsfree Assistive Technology

My Quadriplegic Spinal Cord Injury, Work & Life

Jan @ Quad.Works



"Hello, World!"



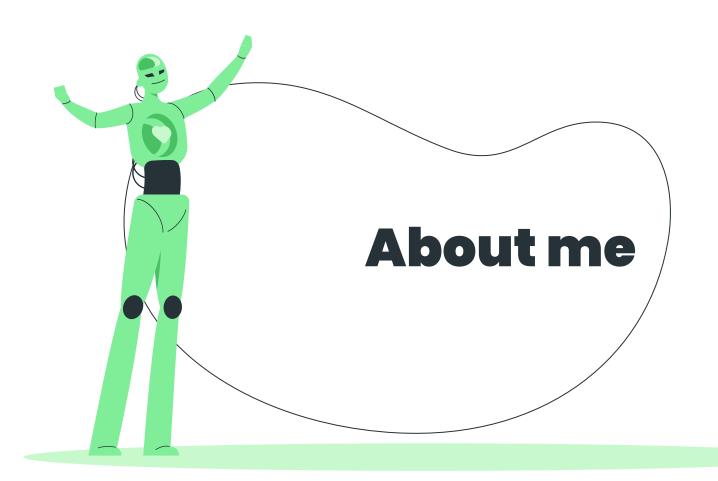












2017 Cabo Verde

- ☐ 1.81m
- **□** 70kg
- □ 35 km/h



Quadriplegia

= paralysis of all four limbs



2018 Berlin

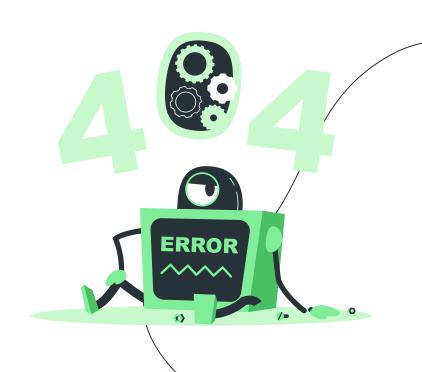
- □ 1.50m
- □ 310kg
- ☐ 12 km/h

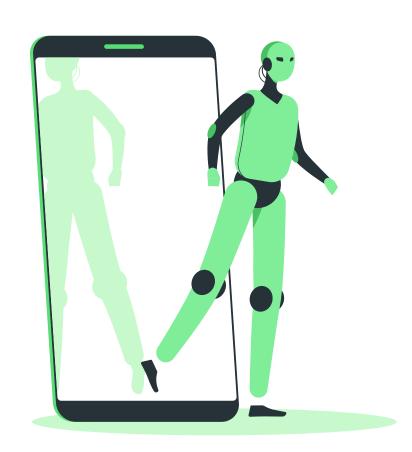




I can't either move or feel my hands or legs nor myself...

- drink
- eat
- cough
- wash or brush teeth
- go to bed
- go to toilet
- walk
- click a keyboard, computer mouse or touch a smartphone



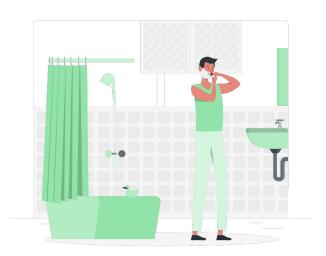




What would be the first thing I would start doing independently again if I could?

If I could then I would...

1. Go to toilet by myself



2. Scratch myself when it itches

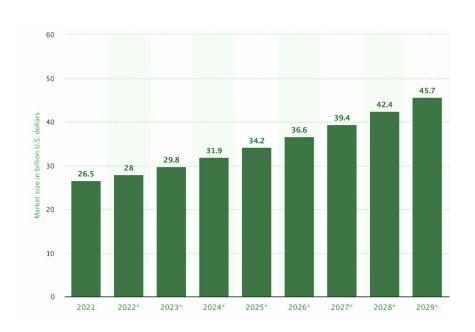


1,300,000,000 people with significant disabilities globally

- 430 million people globally have moderate to profound hearing loss
- 1 billion people with vision impairment that could have been prevented or is yet to be addressed
- 80 million people need a wheelchair



Assistive technologies is projected to reach over \$42b by 2028.



Next Move Strategy Consulting, Size of the disabled and elderly assistive technologies market worldwide between 2021 and 2030.



Quad.Works

Tutorials how to use the latest assistive technology for all day & work activities without using your hands or feet.

Quadriplegic Spinal Cord Injury, Work & Life. Smart Home, Power Wheelchair & Handsfree Assistive Technology.

Spinal Cord Injury ~ My Setup ~

Assistive Technology ~





Setting up tecla-e for iPhone to control smartphone without hands

I set up a tecla-e Bluetooth switch control device so that I could independently use my phone that



How to stay positive beeing paralyzed after spinal cord injury

I always believed I am unbreakable. I actually never broke any of my bones, Now I broke my neck.

My assistive technology portfolio

Basic needs





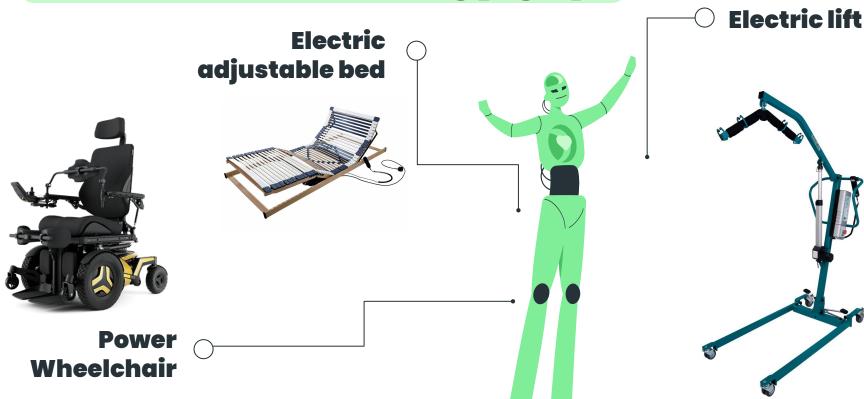
Smart home





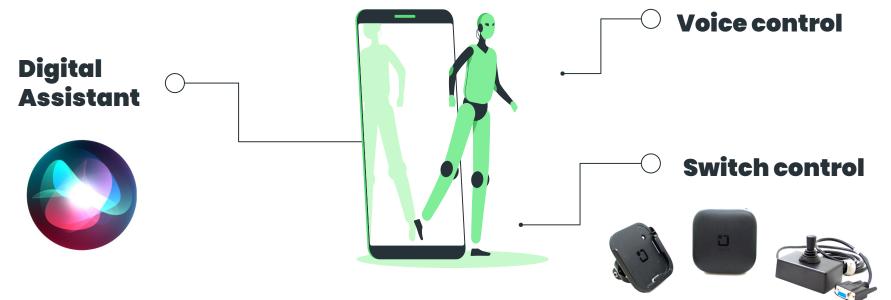
Mobility

The basic technology gap



Smartphone hands-free





Hardware for hands-free desktop use

- Headmouse
- ☐ Table & mobile microphone
- Headsets



Audio Scribe

Hands-Free Assistive Technology: Overcoming Challenges with Solutions

Hello, my name is Jan and today I will discuss hands-free assistive technology. I am quadriplegic due to a spinal cord injury, and I am excited to share my story with you all. I used to consider my challenges as problems, but now I see them as opportunities for finding solutions, which I will present today. After my presentation, there will be time for questions and answers.



Software for hands-free desktop use

- Dwell click
- Virtual keyboard
- ☐ Keyboard text
- Dictation
- Voice control
- The cloud



Digital whiteboards enable accessible worklife

- ☐ Inclusive collaboration
- ☐ Interactive hybrid meetings



Smart home using voice, switches & mobile apps



Smart home increases accessibility (for couch potatoes)



Lights & switches



Thermostat



Doors, curtains, tables, couch & bed



Air purifier

My favorite mobile tools

Hydrant



Van with Lift



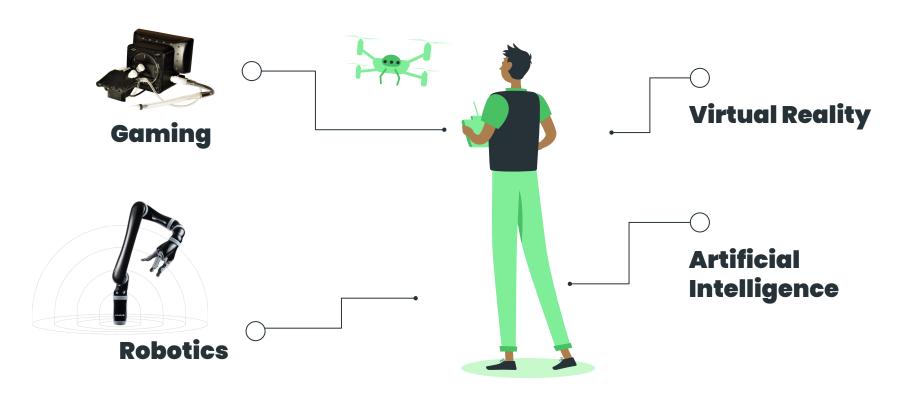
Bluetooth sunglasses



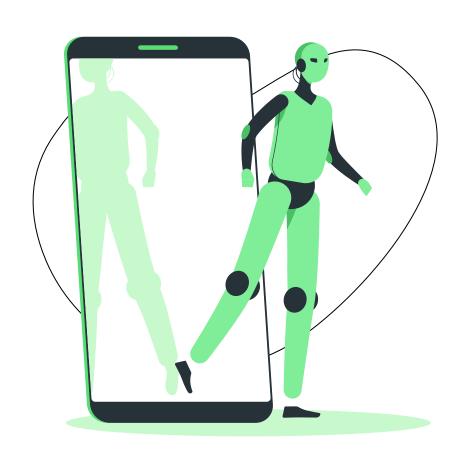
Bluetooth blood pressure meter



Technology drives accessibility







Q&A?!

Jan@Quad.Works / Quad.Works

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