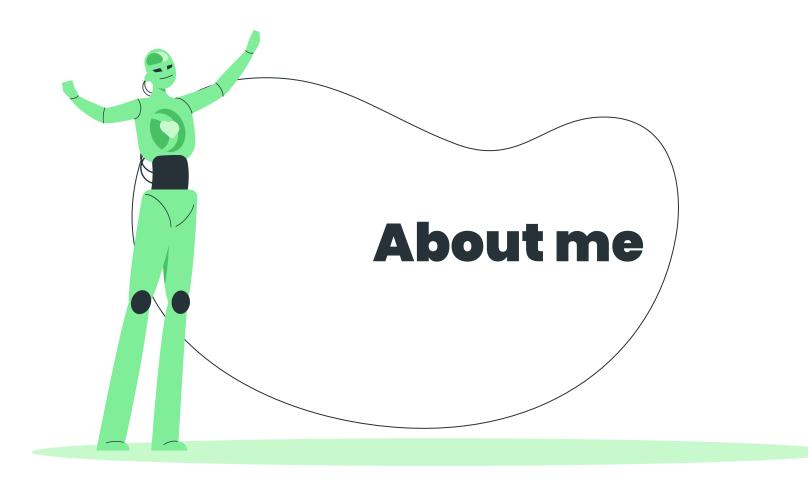
# Hands-free Assistive Technology

My Quadriplegic Spinal Cord Injury, Work & Life

Jan @ Quad.Works

#### "Hello, World!"





#### 2017 Cabo Verde

- **1.81**m
- **7**0kg
- □ 35 km/h



### 2018 Berlin

1.50m
310kg
12 km/h



## Quadriplegia

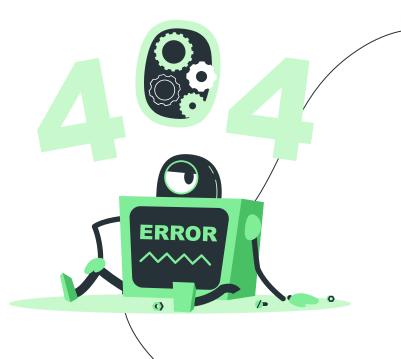
= paralysis of all four limbs

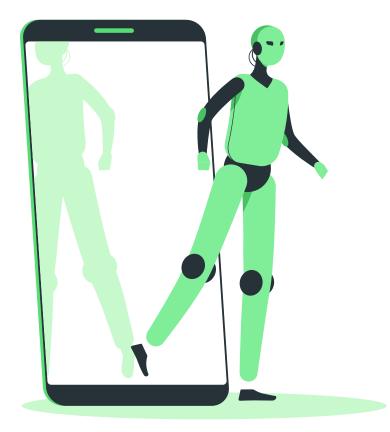




### I can't either move or feel my hands or legs nor myself...

- 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

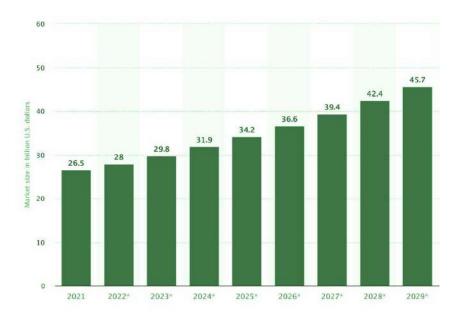


# 1,300,000,000 people with significant disabilities globally

- 430 million people globally have moderate to profound hearing loss
- I 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.

Setting up tecla-e for iPhone to control How to stay positive beeing paralyzed after smartphone without hands spinal cord injury I set up a tecla-e Bluetopth switch Lalways believed Lam unbreakable, I control device so that I could actually never broke any of my bones. Now I broke my neck donthy use my phone th



Quadriplegic Spinal Cord Injury, Work @ Life Smart Home, Power

Wheelchair & Handsfree Assistive Technology



Spinal Cord Injury ~ About me ~

Assistive

Technology ~

My Setup v

### My assistive technology portfolio

**Basic needs** 





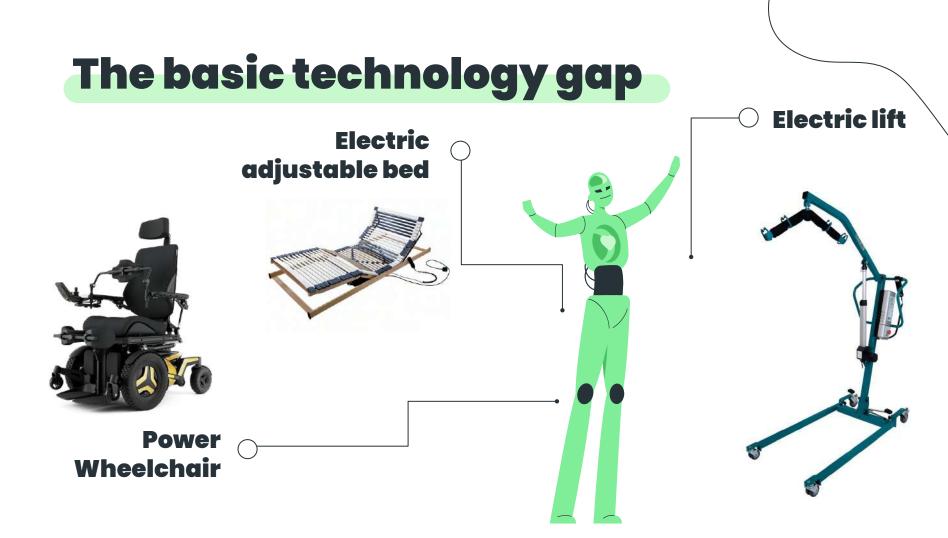
Smartphone & Desktop

#### **Smart home**





Mobility





### 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

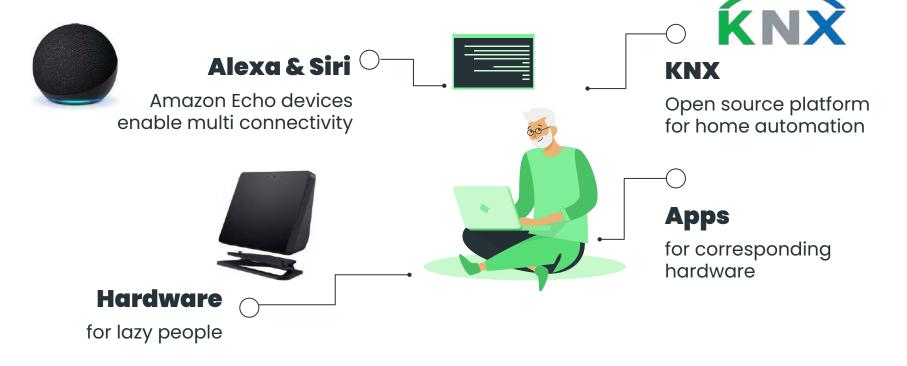


### Digital whiteboards enable accessible worklife

- □ 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

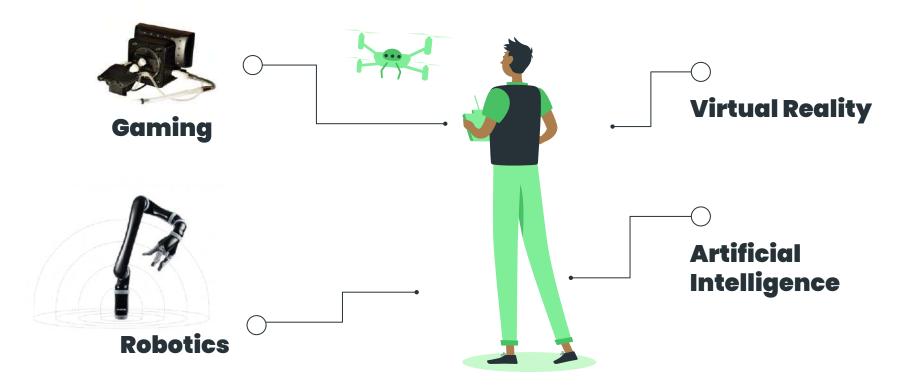




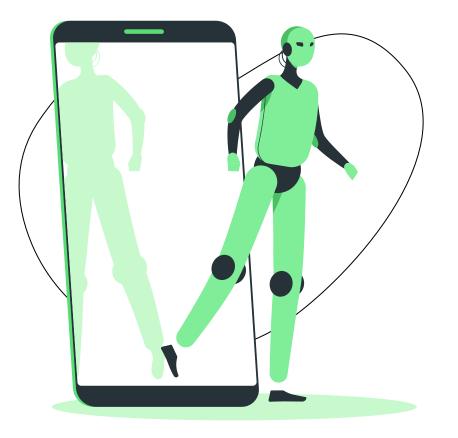
#### Bluetooth blood pressure meter



### **Technology drives accessibility**



# Thanks to assistive technology



## **Q&A?!**

#### Jan@Quad.Works / Quad.Works

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