



# Omnivisi

Human Factors NL

*28 November 2019*



**Mücahit Aydın MSc.**  
Industrieel ontwerper,  
Integrated Product Design

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Prof. dr. ir. Kaspar Jansen

**Begeleiders Maastrad Ziekenhuis:**  
Rene Klaassen  
Jaco Hoekman



01



Project Initiatie

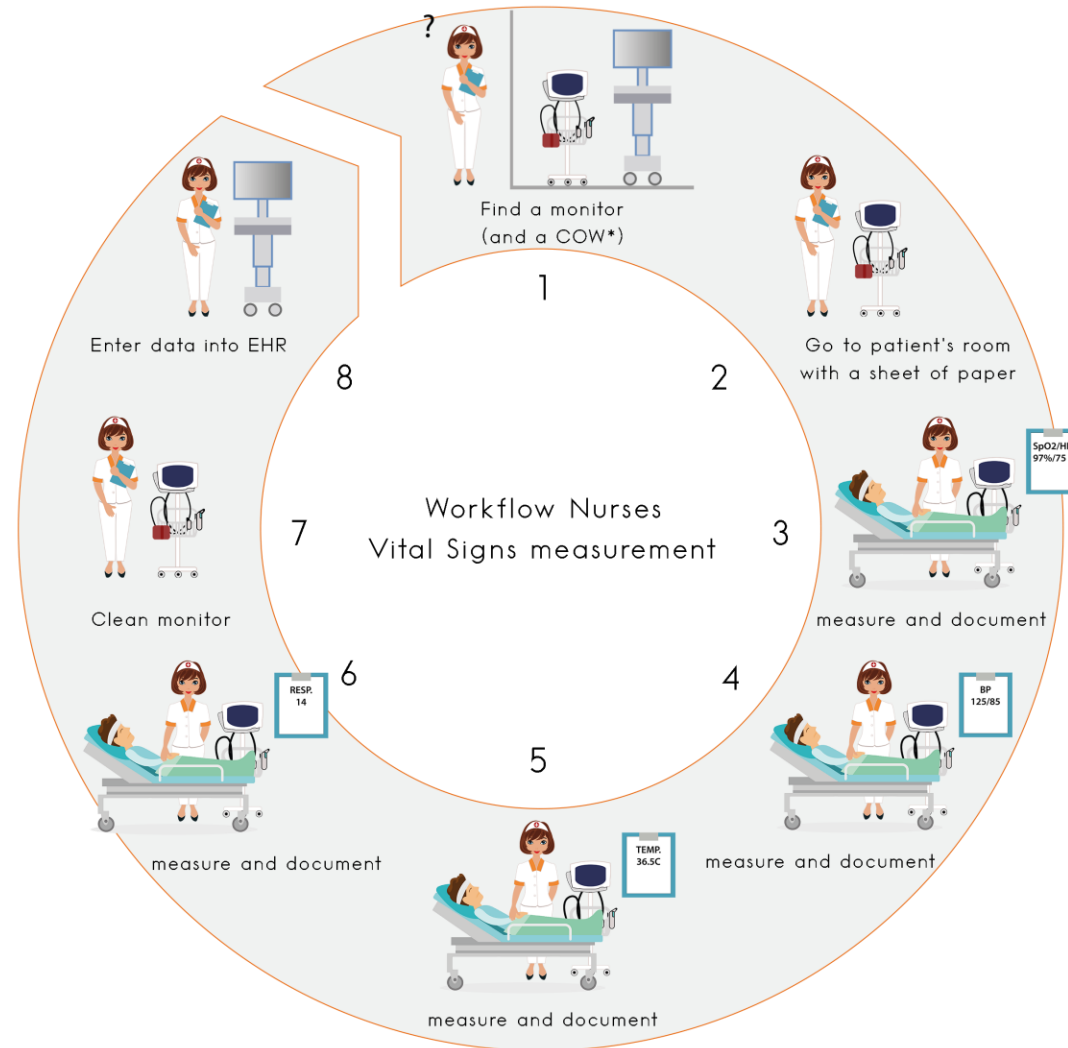
# PROJECT INITIATIE

- Maasstad Ziekenhuis
- Afdeling Chirurgie
- **Doelgroep:** Patiënten met kanker en obese patiënten



# PROBLEEM

- 3,5 uur per dag
- Foutgevoelig
- Geen alarmering



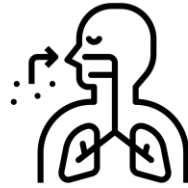
# VITALE FUNCTIES



Hartslag

**SpO<sub>2</sub>**

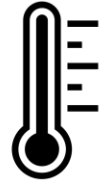
Zuurstofsaturatie



Ademhaling



Bloeddruk



Lichaamstemperatuur

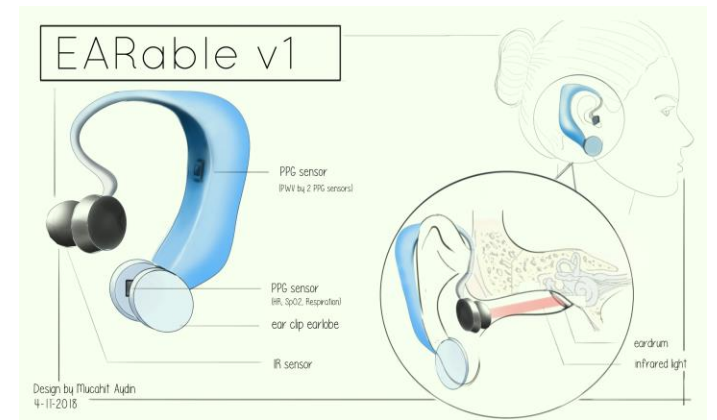
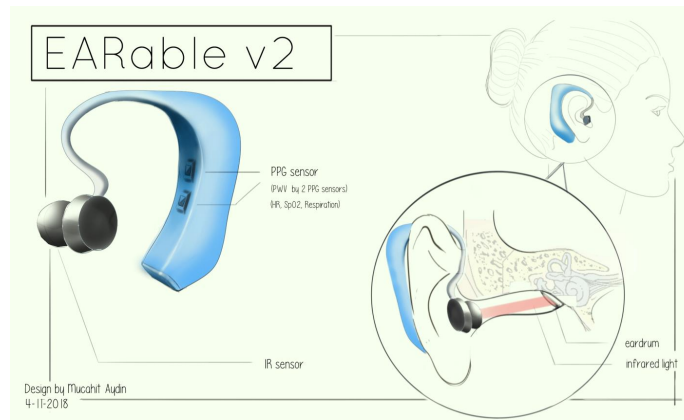
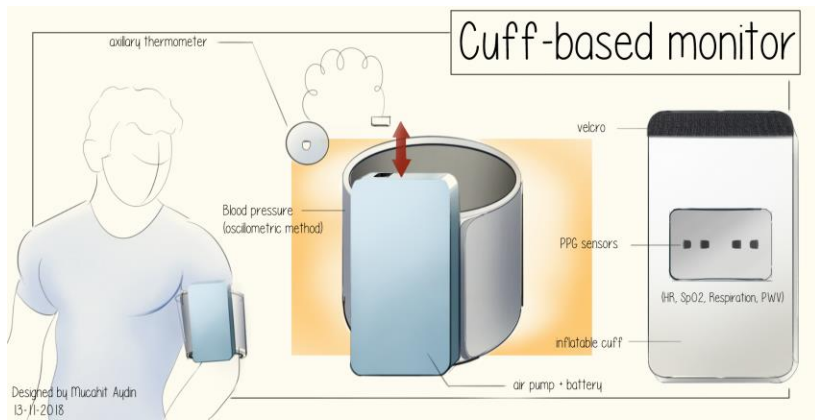
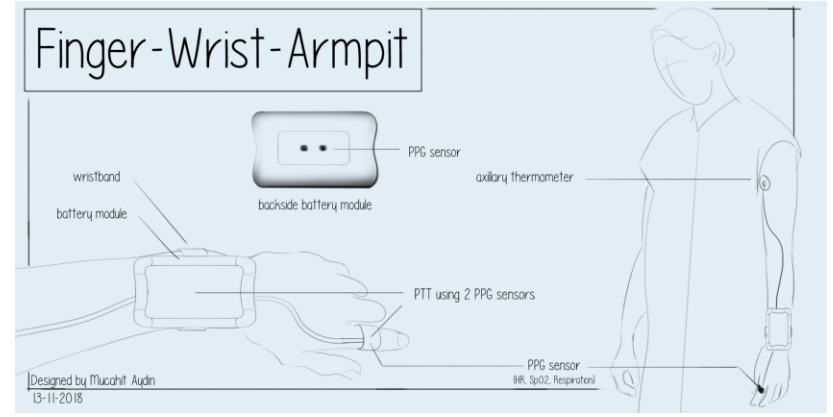
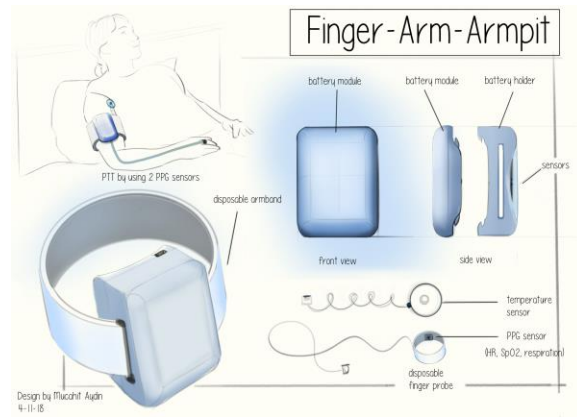
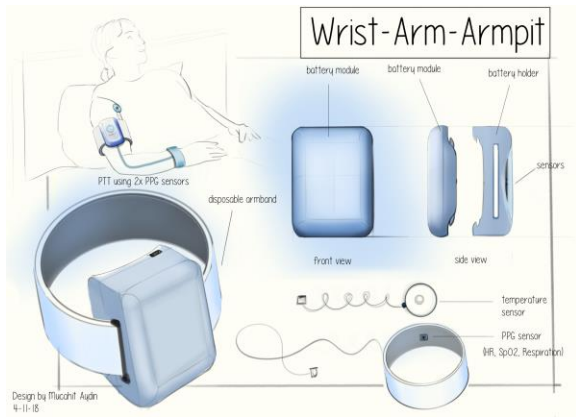
# VOORDELEN

- ✓ Tijdsbesparing
- ✓ Veranderingen detecteren
- ✓ Opname IC vermijden

02

Resultaten

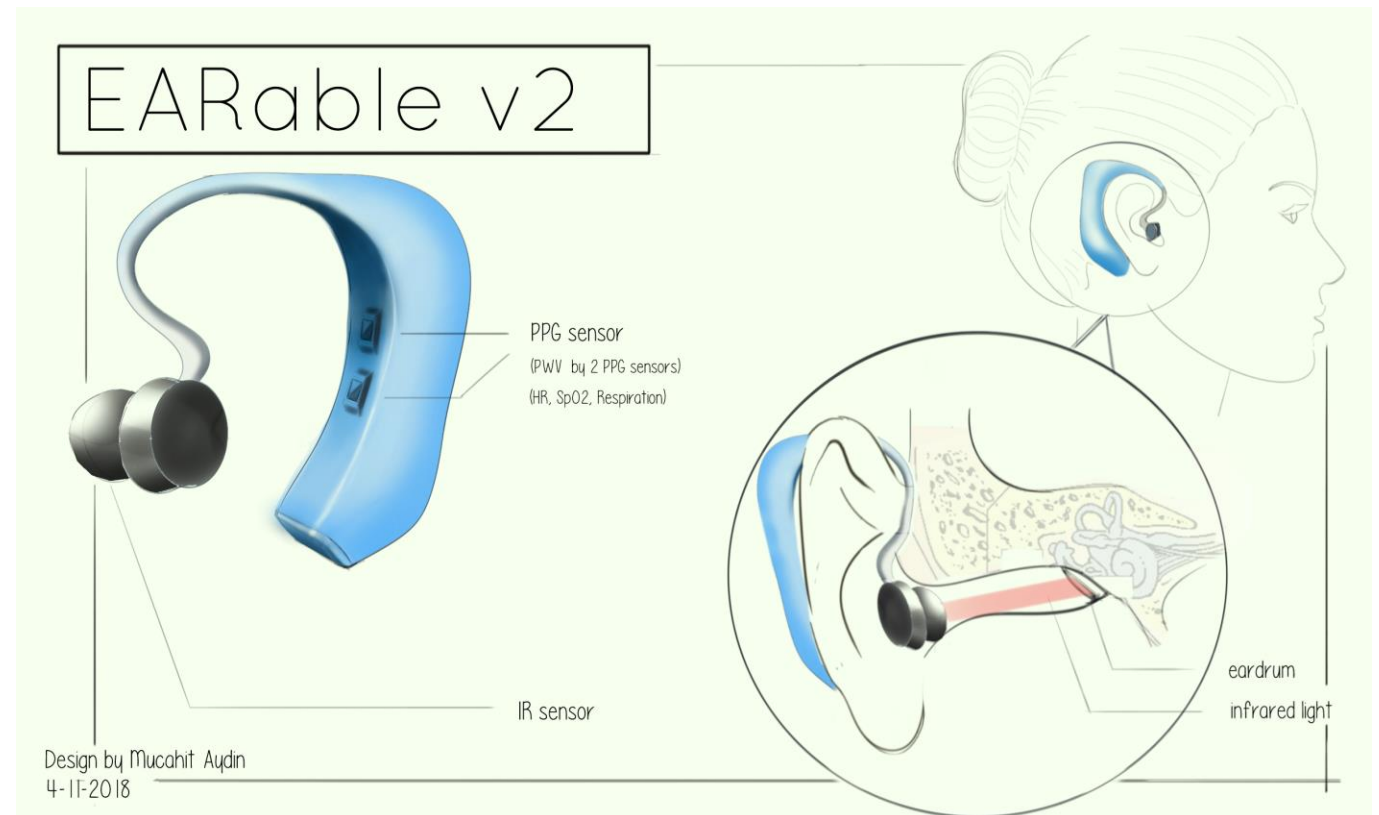
# CONCEPTEN





# GEKOZEN CONCEPT

- Contact met de oorschelp
- Beperkte data



# ERGONOMISCH PROTOTYPING



# POLYMORPH MODELLEN



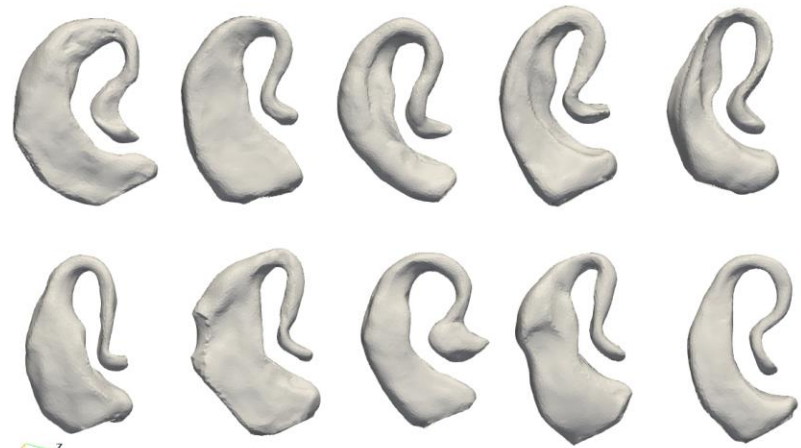
# GEMIDDELTE VORM

1.



1.

2.



1.



2.



3.

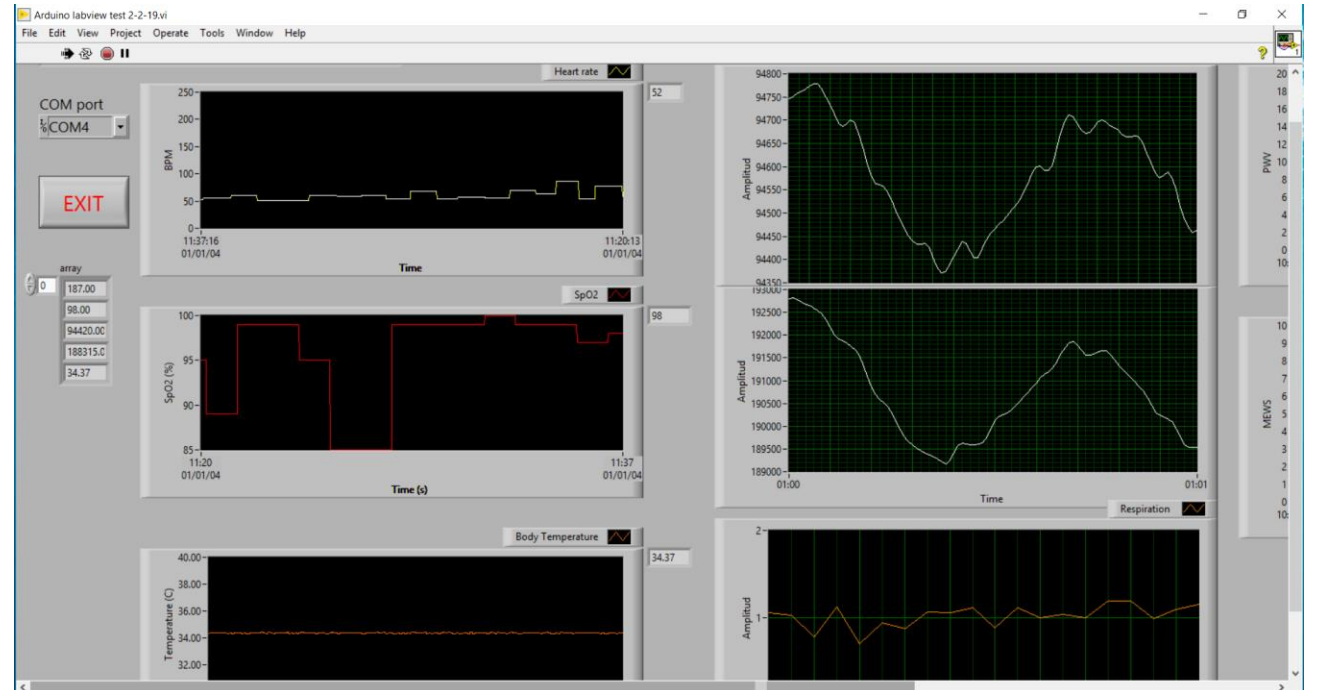
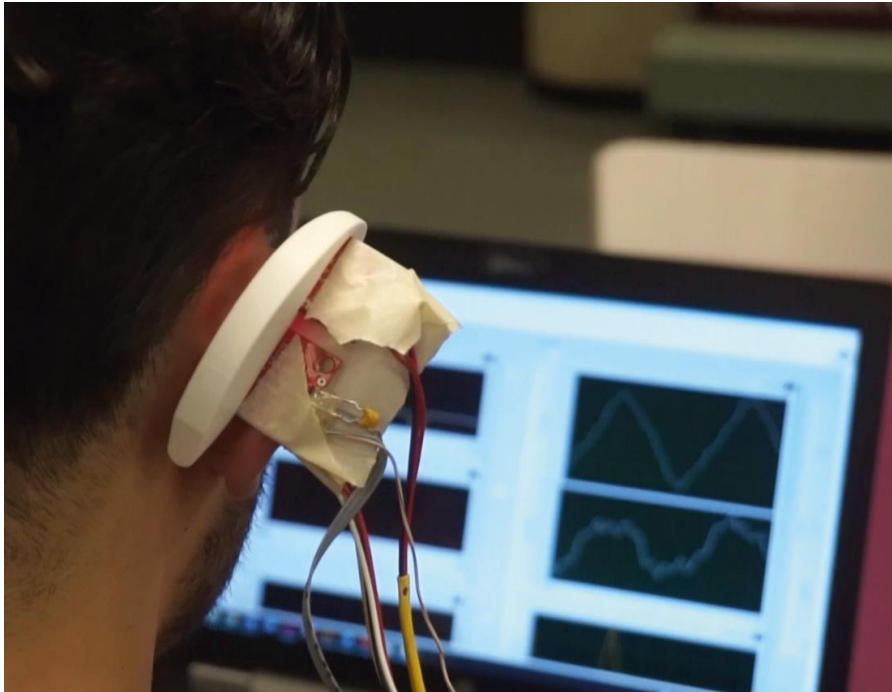


# GEBRUIKERSTEST



**Score: 3** (1= niet comfortabel, 5= comfortabel)

# PROOF OF PRINCIPLE





03

Eindontwerp

# MOODBOARD





**Omni**visi











*“In 1969 konden we al naar de maan vliegen, maar we meten de vitale functies nog steeds manueel.”*

*– Jaco Hoekman, Teamleider Afdeling Chirurgie*





OmniVisi

**Bedankt voor uw aandacht!**