

Michael Rehtin, Department of Industrial Engineering
 Jeremy Collins, Department of Mechanical Engineering
 Tyler Tracy, Department of Computer Science
 Andrew Crippen, Department of Electrical Engineering
 Dr. Alexander Nelson, Department of Computer Science and Computer Engineering

Problem

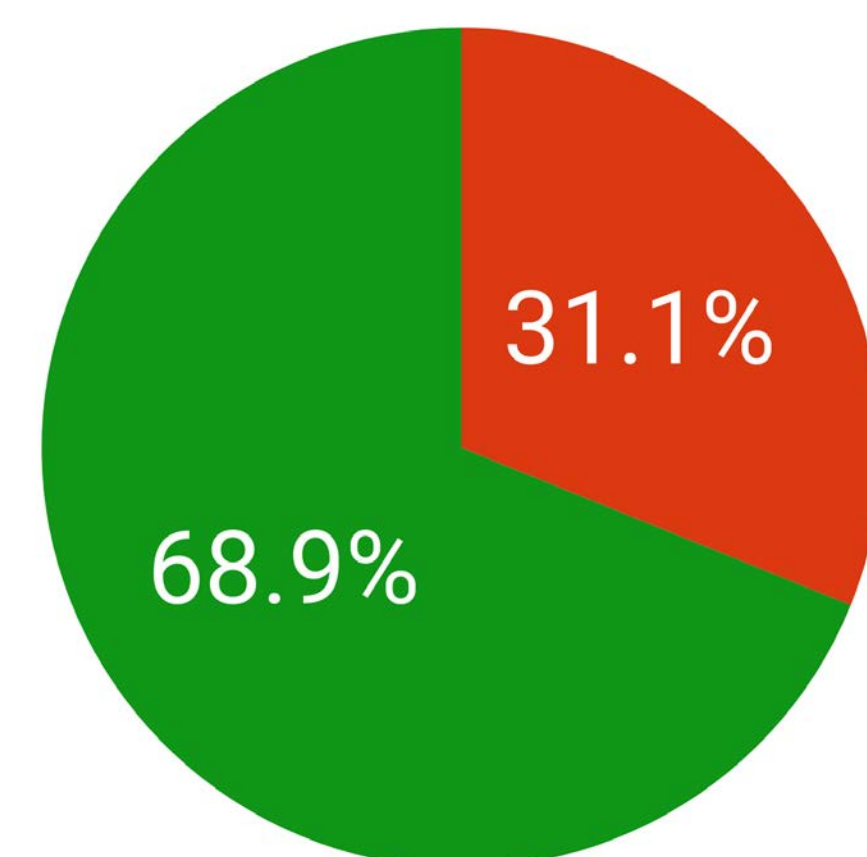
We only use our hands to effectively interact with technology

- Scrolling through recipe while cooking
- Playing/Pausing a TV
- Changing the song playing over a speaker

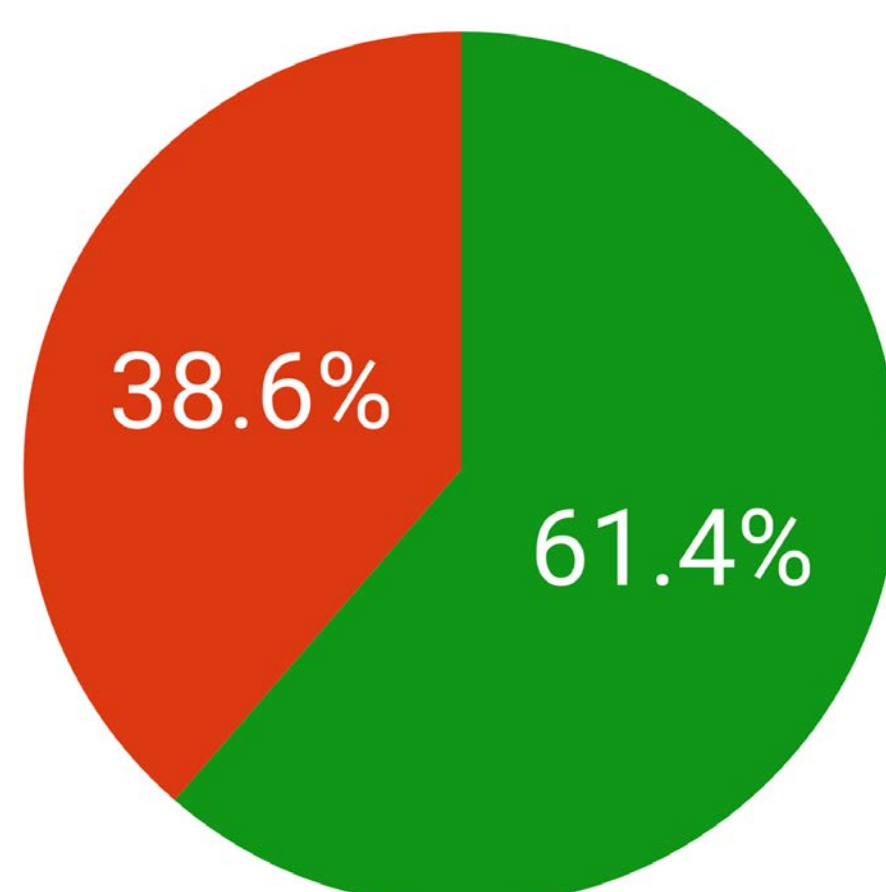
No existing product allows all of these

Market Interview

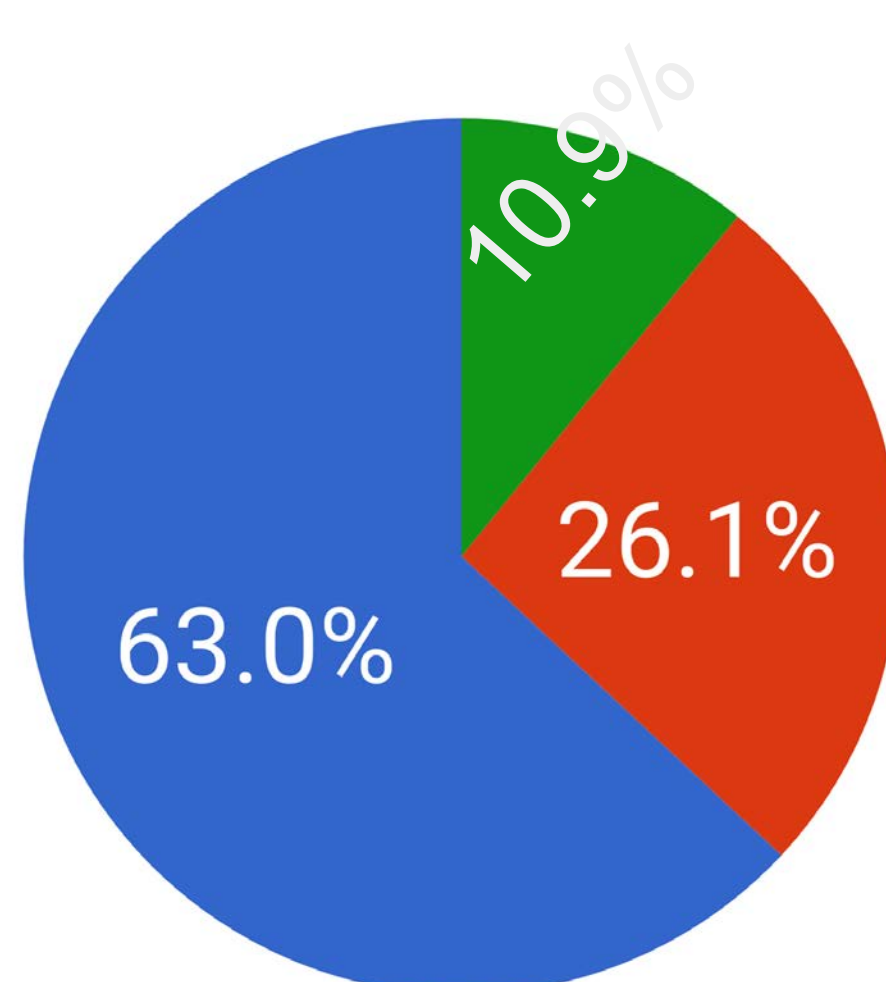
Is the mouse and keyboard enough?



Would you like a handless device?

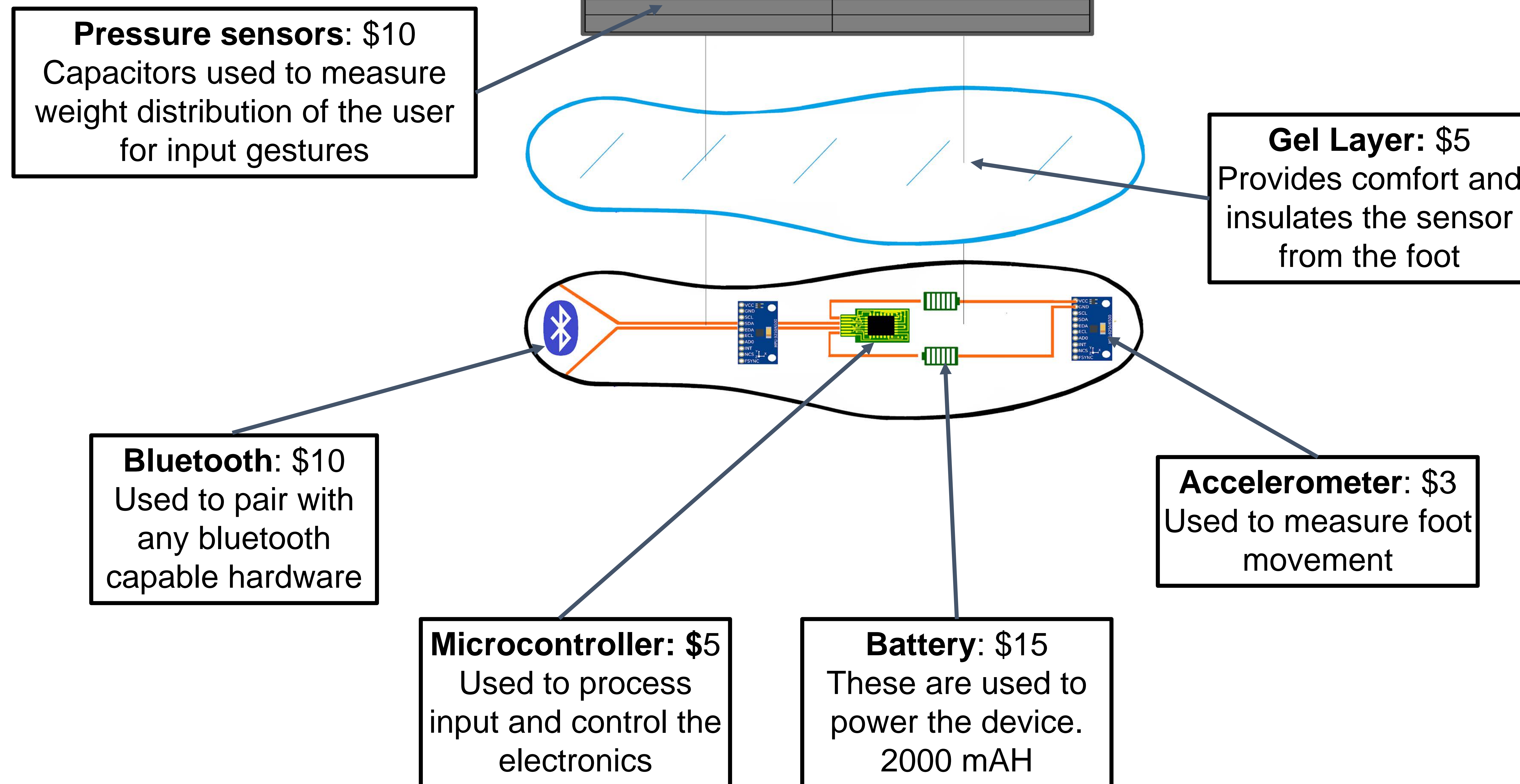


Would you use your feet to interact?



- Yes
- No
- Skeptical

Solution



Proof of Concept

Wizard of Oz Experiment:

- Participants are given a fake version of our product.
- Users perform certain actions on the device, believing they are using the real thing.
- From this data, we could have refined our product, determining its viability.

We were not able to perform this experiment, as we did not get approval to test with human subjects before the Symposium.

Market Competition

	Cost	Peripheral Ability	Removable	Handless
SolePower	\$200	X	X	✓
Project Jacquard	\$350	✓	X	X
NanoPower	\$61	X	X	✓
Foot Mouse	\$150	✓	X	✓
Elos	\$75	✓	✓	✓