Elos: The Shoe Sole Reinvented

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Problem

We only use our hands to effectively interact with technology
- Scrolling through recipes 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

Pressure sensors: $10
Capacitors used to measure weight distribution of the user for input gestures

Bluetooth: $10
Used to pair with any Bluetooth capable hardware

Microcontroller: $5
Used to process input and control the electronics

Battery: $15
These are used to power the device. 2000 mAH

Gel Layer: $5
Provides comfort and insulates the sensor from the foot

Accelerometer: $3
Used to measure foot movement

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

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<tr>
<th></th>
<th>Cost</th>
<th>Peripheral Ability</th>
<th>Removable</th>
<th>Handless</th>
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<td>SolePower</td>
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