

2 page, 2-3 slides 2-5 min, 30 sec for questions

Smart Watches Outline: How we can improve them?

Topic approval - Oct 11 6pm

M.T

- What question
- Why important?
- Motivation?
- How do you plan to answer the question
- any prelim data

Outline

- 2 pages
- 2-3 slides
- 2.5 min
- 30sec Q

Finals

- Solution in detail
- Motivation
- Answer → solution
- Lit survey
- Benefits, Theory, operation/principle of working
- Any other data
- Results and Discussion
- conclusion
- Future Dir
- 7-8 pages
- + ref

- What question
 - How we can improve them
- Why important
 - Increase efficiency
- Motivation
 - Because I have one and its pretty cool
- How do you plan to answer the question
 - Look up ways to improve the watch
 - Brainstorm new ideas
- Any prelim data
 -
- Outline

Smart Watches: How we can improve them?



How can we better improve smartwatches? Well first of all, what is a “smartwatch?” Smartwatches are watches but better providing more features than a tradition digital watch. They have functions of a smartphone, being a touchscreen, offering apps and often record your heart rate and other vital signs. You can think of a mini smartphone on your wrist. They can track activities you do throughout the day providing data like your steps, exercises, and heart rate.

Most smartwatches are intended for daily use or can be used for a more specific purpose but overall they can display notifications - usually paired with smartphones mirroring the phone’s notifications on to your wrist. Have apps - varying from smartwatch to smartwatch, generally adding more functionality to the watch. Media management - most smartwatches paired with smartphones can manage media playback for you [1].



Answer messages by voice. Fitness tracking. GPS tracking how many miles traveled during a run. If you misplaced your phone you can use, Find my phone, which will make a noise so you can locate your device.

Smartwatches are getting better every year but there is always room for improvement. First, increased battery life is the number improvement, having one charge that last many days would be amazing. Second, is the user interface, how the user will navigate through the smartwatch to access their apps and such. This can be fixed with a software update and has been improving with newer generations but some smartwatches can be a hassle to navigate. Third, is the cost of a smartwatch, in order to get a decent quality smartwatch with good battery life and high quality with many functions it does not come cheap. The most recent Apple Watch, the Apple Watch Series 5 starting price is \$399, that's not cheap. And finally, the design of the smartwatch which will make up the size, comfort, and style of the smartwatch. If the smartwatch is uncomfortable, heavy, or doesn't look good, no one is going to wear it.

I plan on fixing all these problems by tackling each problem one by one researching the best technology in each problem. I will be researching the best battery, the best software, and the best style to make the best smartwatch.

References

- [1] S. Silbert, "What Is a Smartwatch?," June 24, 2019. [Online]. Available:
<https://www.lifewire.com/an-introduction-to-smart-watches-3441381>
[Accessed Oct. 30, 2019].