

# Rise of the Wearables!!

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# A little about me



- Been working in Microsoft based technologies for a looong time!
- Am a mobile geek (six phones and counting).
- So now i develop mobile applications in native, hybrid technologies!
- My twitter -> @ I Love the Xbox !
- Working with Centric Consulting for last 7 1/2 years (Full time and as an independent prior to fulltime).
- Co-Director - Cincinnati DotNet User Group ([www.cinnug.org](http://www.cinnug.org))
- Director - Cincinnati All Things Mobile User Group ([www.catmug.org](http://www.catmug.org))
- Love to work with cool toys (aka Kinect, wearbles, HoloLens maybe??)
- Searching for the ultimate wearable device!

“Nobody wears a watch anymore.”



WEARABLES ARE DOOMED TO  
FAIL!



# APPLE ANNOUNCES APPLE WATCH!

A wide-angle photograph of a mountainous landscape at either sunrise or sunset. The sky is a deep blue at the top, transitioning into a vibrant orange and yellow near the horizon. In the foreground, a small, illuminated orange tent sits on a rocky, grassy slope. Beyond the tent, a large, rugged mountain range with patches of snow and ice stretches across the middle ground. A calm lake reflects the colors of the sky and the surrounding peaks. The overall atmosphere is serene and adventurous.

So now, wearables are being launched every other month!

Does that mean wearables are here to stay?

# TIMELINE OF WEARABLE LAUNCHES

- First watch designed to be worn appeared in 1530. It was powered by winding the watch and lasted 12 to 16 hours.
- Queen Elizabeth I was presented a jeweled watch in 1571.
- John Harrison's H4 sea watch was used in 1759 for navigation.
- Calculator watches first appeared in 1970. Remember Casio Databank?
- Seiko TV Watch debuted in 1982 and appeared in James Bond Film- Octopussy

# TIMELINE OF WEARABLE LAUNCHES

**Seiko Data-2000**



**Description** **Comments (0)**

**Seiko Data-2000**  
1983

Seiko's first 'smart' watch could store notes and appointments, and perform calculator functions thanks to a keyboard dock that communicated with the watch via magnetic pulses supporting a data transfer rate of 2Kbps.

*Image The Buxton Collection*

Link: <http://pocketcalculatorshow.co...er-watch-fun/>  
Added by: cmclellan

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# TIMELINE OF WEARABLE LAUNCHES

- Casio Databank appears in 1984.
- Sinclair Wristwatch Radio in 1985
- Micro Optical , founded in 1995, was an early developer of head mounted displays. The founder, Mark Spitzer, was later hired by google in creating the Google Glass.
- Microsoft SPOT watches released in 1993
- Garmin releases forerunner in 2003
- Fitbit tracker was unveiled in 2008 and is still very popular as a fitness device.
- Sony Smartwatch in 2012.
- Pebble launches in Jan 2013 via a most successful kickstarter campaign.
- Google Glass follows in feb 2013



# WHY DO I NEED ANOTHER DEVICE?

- I have a Laptop.
- I have a Smart Phone.
- I have a tablet.
- I don't really need another device that requires charge!
- Life is too complicated!

# A TYPICAL DAY!

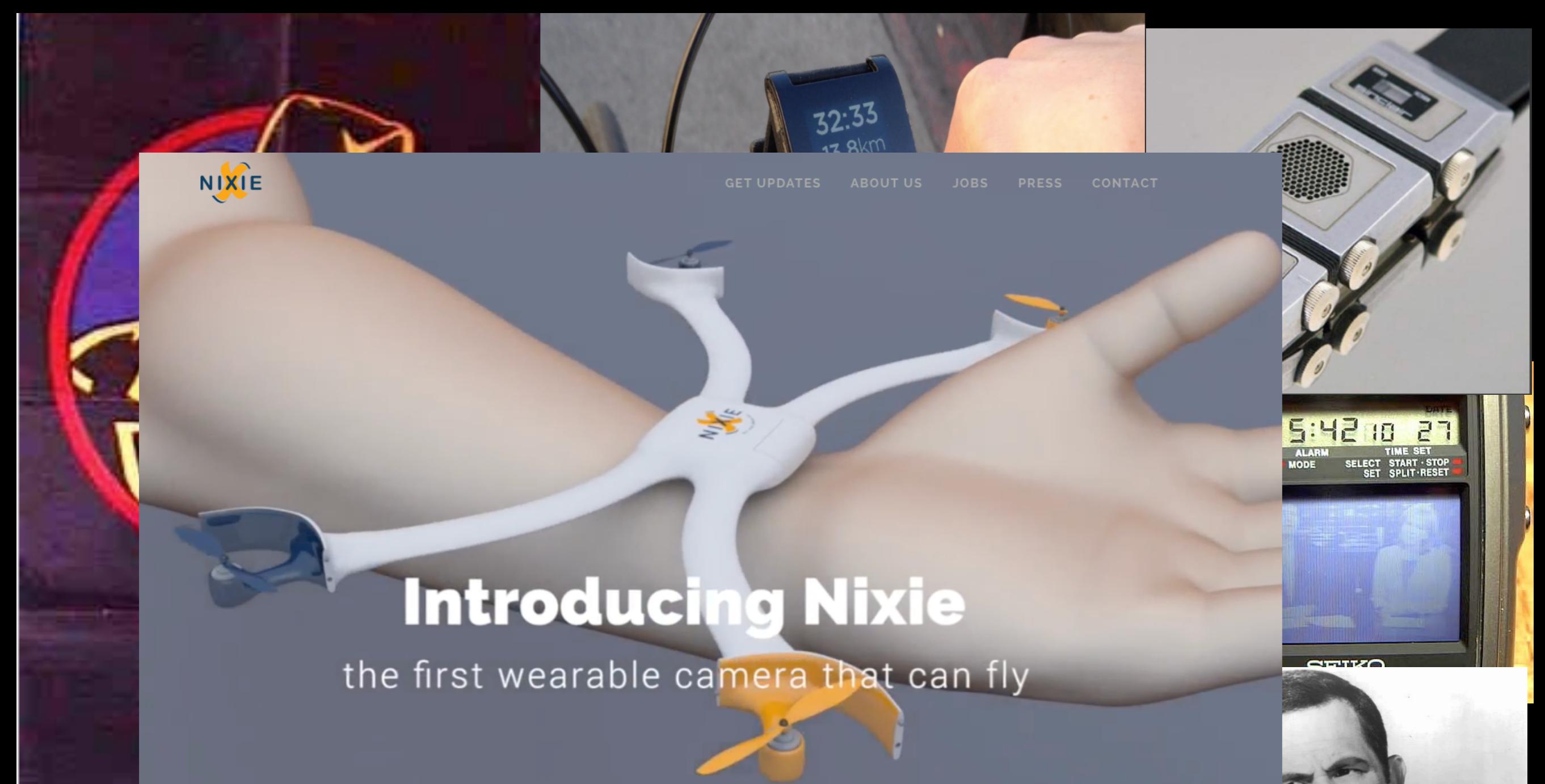
- Get up in the morning.
- Check your phone.
- Get in the car. Play music from your phone. Go to work.
- Work on your laptop. Attend conference calls via Skype.
- Get off work. Check your calendar on your phone for evening activities.
- Get in the car. Play music from your phone. Go home.
- Sit down for dinner.
- Watch TV.
- Browse on your tablet.
- Days over!

# WHY DO I NEED ANOTHER DEVICE?

- Life is too complicated!

Apple announces "Apple Watch" but ..."Nobody  
wears a watch anymore."



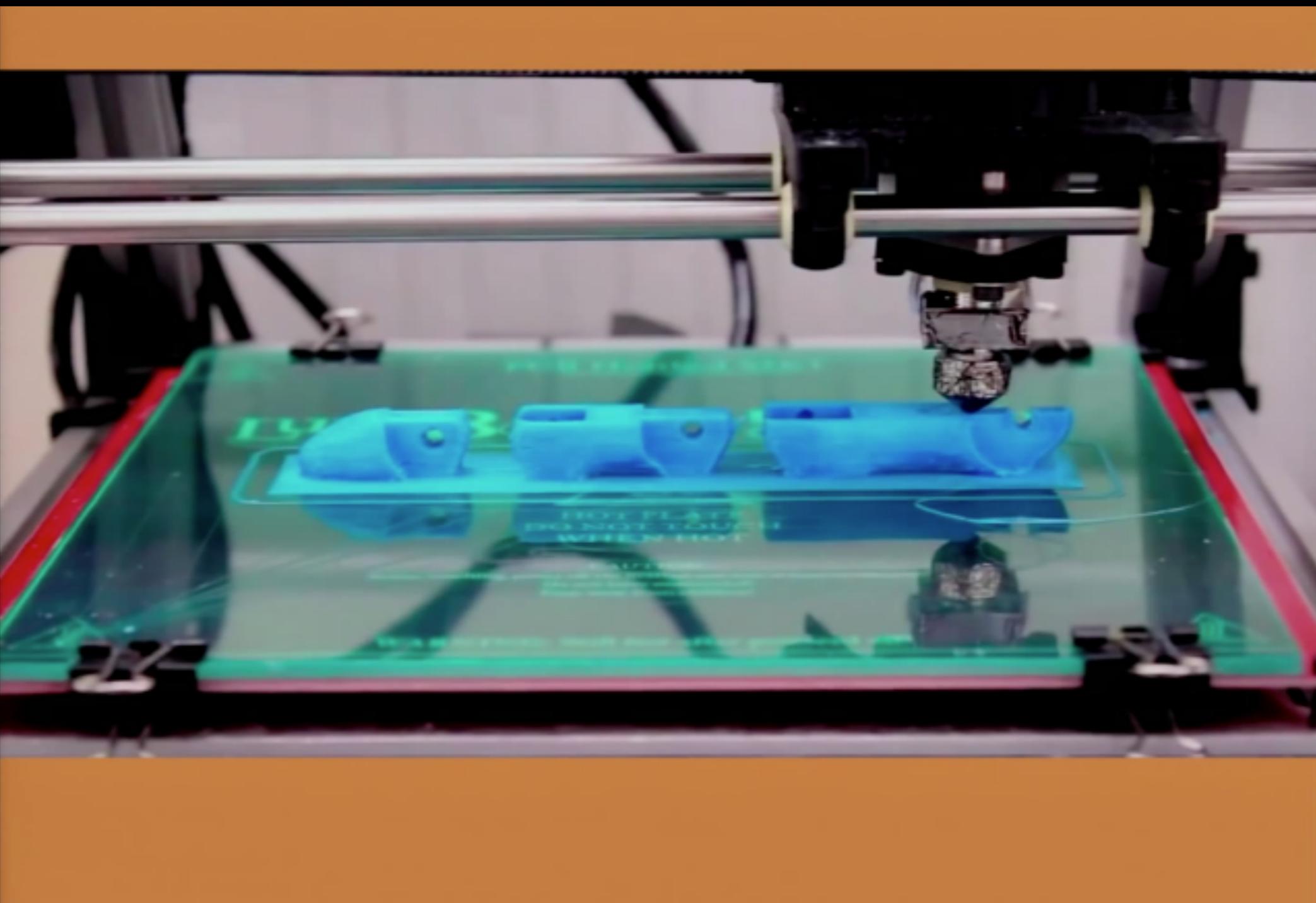


WHAT CAN MY WEARABLE DO  
FOR ME?



# THE FUTURE OF WEARABLES ISN'T A CONNECTED WATCH







# WHAT DO WEARABLES MEAN TO PEOPLE?

- Fitness trackers?
- Smart Watches?
- Payment devices?
- A computer all in one?
- Hearing aids?
- Glasses of the future?
- Flexible Displays?
- Replacement Bionic Hand?

# THE DEVICE I WEAR WILL...

- Measure my fitness.
- Show my reminders.
- Let me take phone calls (Since by the time one takes the phone out of the pocket, the call has usually gone to voicemail).
- Play music.
- Unlock my front door.
- Arm or disarm my security system.

# THE DEVICE I WEAR WILL...

- Replace my universal remote (after all when there is a watch on my hand, why do I need to get up and grab the remote?).
- Open my soda bottle (Oops I forgot that bottle opener!).
- Show me a small projected screen (Since I don't want to miss that touchdown of course!) to watch news or sports.
- Be able to withstand water and impacts without damage (After all I don't want to take it off while playing tennis and swimming).
- Last forever (10 days is good for starters) or use solar charging.

- After all, I am not a very demanding person!!
- Brief pause while the laughter dies down 😊
- Is this possible?
- After all, if it can be envisioned, it can be done.

# TO EACH HIS OWN!

- There is no clear winner.
- Most people give up wearing fitness bands in a year.
- Quite a few folks wear watches but they are personal!
- Nobody is going to answer phone calls on their wrist!
- Choice of device is by desired function, IMHO!

BREAK FOR SOME PREVIEWS

# NIXIE



# INTERMISSION

# LETS LOOK AT FITBIT

- Popular fitness device
- Recently announced a smartwatch style fitbit product called FitBit Surge
- Primarily a fitness tracker rather than a smartwatch replacement

# NEXT ITS THE SAMSUNG WEAR DEVICES

- Great if you are in the samsung eco system.
- A variety of products based upon need.
- Confusing for consumer which one to pick.
- 1000 apps and counting.

# PEBBLE TIME - OUT OF TIME?

- Popular wearable.
- Works on both iOS and Android.
- No key sensors so primarily serves as a smartwatch companion.
- 1000 plus apps and good battery life.
- Possible not a viable option anymore.

# REST OF ANDROID WEAR

- Plenty of options if you own a non Samsung Android phone.
- Also support iOS in some capacity so why choose Pebble?
- A variety of choices from HuaWei to LG to Moto 360 Second Generation.
- Work well with Android devices.

# MICROSOFT BAND

- Primarily a fitness device.
- Works great with windows phone devices but also with iOS and Android devices.
- Good quality product.

# AND APPLE WATCH

- Obvious choice for iPhone users.
- No shortage of apps including those that unlock doors and other home automation functions.
- Good option due to tight integration but as stated above only for the iOS ecosystem.

# WHAT WEARABLES ARE NOT / SHOULD NOT BE

- Distractions for driving. Some send every text to your wrist. Imagine driving with getting constantly buzzed on the wrist.
- Replacements for smartphones. Not yet at least!
- The one device to “Control them all”!

# SO WHAT ABOUT MY SMARTPHONE?

- All popular smartphones (iOS, Android, Windows Phone) devices can do pretty much everything a wearable can and then some more on a bigger screen.
- Stand alone wearables are not robust enough or available at this point (Remember Dick Tracy's watch).
- So wearables are just convenience at this point rather than a needed accessory.

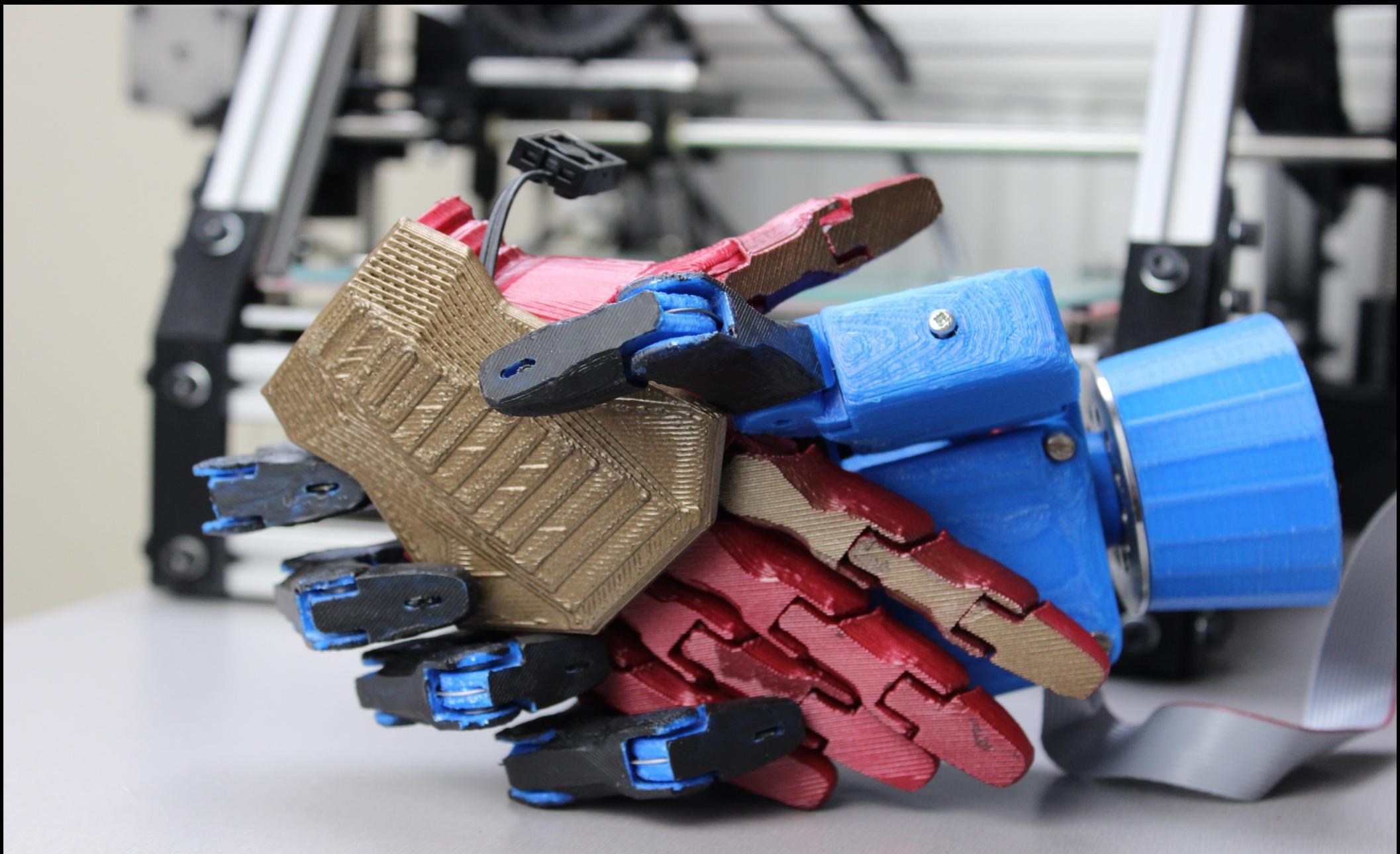
# INTERMISSION

# DEVELOPER OPTIONS

- Depends on choice of platform
- iOS for Apple
- Android for Android family of wearables except Samsung (Tizen OS).
- C or Javascript for Pebble (If it remains viable)
- Other paid/monthly subscription options.

# FEW DEMOS ON THE APPLE WATCH

THE SKY'S THE LIMIT ! LITERALLY!



TECHNOLOGY CHANGES LIFE  
THE RIGHT TECHNOLOGY CAN MAKE IT  
SIMPLE

WHAT WILL YOUR WEARABLE BE?

THANK  
YOU!

LETS SIMPLIFY LIFE!

# CREDITS

- Wikipedia for Images
- <http://www.openbionics.org>
- <http://flynixie.com>
- <http://www.apple.com/watch/>
- <http://www.microsoft.com/microsoft-band/en-us>
- <https://twitter.com>
- <http://facebook.com>
- <https://www.google.com/glass/start/>
- <http://www.wired.com/2015/01/useful-wearables/>

# REFERENCES

- <http://www.zdnet.com/the-history-of-wearable-technology-a-timeline-7000030090/>
- Pebble ([getPebble.com](http://getPebble.com))
- Moto360 Web Site
- Microsoft (Band and HoloLens)
- Apple Watch Web Site
- Samsung Gear Web Site
- FitBit WebSite