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A PATH FOR HORIZING YOUR INNOVATIVE WORK

GOOGLE GLASS

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Abstract: Google glass is a new type of technology that is a way to have a touch tablet, or any sort of phone, whether it is an iPhone, android or any new technology, such as a Google phone in "glasses form". This new knowledge is a form of free data that is right in front of your eyes. Google Glass can film, take photos, give directions, search for things on Google, a translator and so much more. It is a new way of sharing what you are doing in your everyday life. Google glasses for people to interact with the virtual world without distracting them from the physical world. It's designed to interact closely with your senses, without blocking them.

Keywords: Spectacle frame, Bifocal, Congression, OHMD

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INTRODUCTION

The Google Glass is a technology that has been long-rumored about. As the name portrays, the Google Glass is a pimped out pair of glasses. And by pimped out, I mean it comes with a optical head mounted display (OHMD) which allows the wearer to see through and look at projected images coming from a small component on the glasses themselves. The Google Glass also has several other capabilities: users can ask the headset question, prompt it to Google words, take photo and video by the prompt of your voice, get directions and view a GPS, and even participate in group web conversations via a Wi-Fi connection. The Google Glass takes "hands-free" to a whole new level

LEGAL AND ETHICAL ISSUES/SECURITY CONCERNS

Just as it comes with benefits, Google Glass comes with its fair share of legal and ethical issues and security concerns. "Many say that the Google Glass does not raise any new privacy issues, but merely rehashes existing ones in a more prominent way." (Katikala, 2013) Existing issues with almost all of the new technology,

it be smartphones, tablets, cameras, or computers, include unwanted surveillance and the ability to take discreet pictures and/or video, cheat on quizzes and exams, and a multitude more. How many students have received text messages with test answers or Googled 'Who was the 24th president?' while in class? How many pornographic pictures or videos have been taken and then posted to the Internet by simply clicking the 'send' button? Unfortunately, Katikala was correct in saying that these existing problems will likely become much more prominent. By receiving the answers to a test, emailing them, and then accessing them via the Google Glass, cheating just became a whole lot easier. The answers are right in front of your face and no one will suspect anything because all you are doing is looking down at the test. With the Google+ Hangout feature, an online chat room that can also be accessed with the new Google Glass, everyone in the group will be able to see what your glasses are seeing. Looking at a confidential file, surveying a house, stalking a group of young students? These can all become new group chat activities. Many people have already voiced concerns about how simple it would be to record and take pictures discreetly and how much of a security concern that could become, including Congressman Joe Barton, the co-chair of the Congressional Privacy Caucus. Google was quick to address him and this ever-growing concern: In its letter [to Congressman Joe Barton], Google attempts to explain away the privacy concern by citing some of Glass's basic functionality: When Glass users want to, for example, take a photo, they have to say something like "OK Glass", which, in theory, would prevent them from secretly taking photos."

Even though Google Glass is a voice prompted device, people are still concerned as to how to best protect themselves. In addition to Barton and the public's photography concerns, they are more worried about the rumors regarding the proposed ability of Google Glass to have facial recognition software and the legal and ethical issues that would surely come with it. These rumors were confirmed when Google stated "Google has said for several years that we won't add facial recognition features to our products without having strong privacy implications in place. With that in mind, we won't be approving any facial recognition at this time." "At this time" became a focus of the public when it was inferred by Google that facial recognition software would indeed be released, just not yet (Bilton, 2013)

TECHNOLOGY

Google glass has an internal camera that can see what you are doing. So if you were to tell it "Google glass, take a photo, or Google Glass record a video" it would with the sound of your voice through the microphone, based on what you are seeing since it is a kind of spectacle frame. It only overlooks over your right eye with a small rectangular prism. Another way of putting it is that it is a "display technology instead to put data in front (or at least, to the upper right) of your vision courtesy of a prism screen. This is designed to be easily seen without obstructing your view" .What is used for the "glasses piece" is a little glass shaped square over your eye that is in another way like a bifocal. Covering your eye, and being able to show what your vision is seeing is a huge benefit of Google Glass. It takes a new point of view on pictures, such as using a Nikon or a Cannon photo. As of now Google Glass is only set up to connect to Google Maps on an Android phone or Bluetooth user, not specific to any other products other than the Android. There was no further information stating if Apple will want to connect to this product with their phones or iPad's. Maybe they have something similar up their sleeve

APPLICATIONS

There is a growing list of ideas for google glass apps for each and every aspect of our live. So naturally we are also seen first apps for fitness: There is an app lynxfit that helps you keep track of your workouts, an app that helps you run faster, compete with yourself or even run. This technology allows Google Glass wearers to use the hands-free camera on the device to send images of diagnostic tests that screen for conditions such as HIV or prostate cancer," Ozcan explains to Nanowerk. "Without relying on any additional devices, Google Glass users can upload these images and receive accurate analysis of health conditions in as little as eight seconds."

ADVANTAGES

Glass is sleek, light and easily wearable and you won't require keeping it on and off your pockets, like mobile phones. No Bluetooth or camera needed when Glass is on, it'll do all for you. Glass will provide you detailed information and satisfactory results on your queries. Make phone calls, sms, emails through Google Glass, no smartphone required. Keep your calendar events, information, contacts updated on Glass..Glass will make you look hi-tech and updated on technology and create an impressive impact on people

DISADVANTAGES

Glass might give you a 'nerdy' look that might create clumsiness among people. No indication while clicking pictures (like pointing the camera) which almost sounds like a hidden camera trying to capture a non-ready subject. Chances are there to drop yourself down in the road while reading a text or email since you can't get your eyes off it. No public privacy concern so the worry of leaking out information still remains. Competition is on pace. The future might bring a contact lens version of Glass after which Google Glass is supposed to sink.

FURTHER REQUIRED RESEARCH

Although the Google Glass has come far from the eight-pound prototype it once was and has now been seen at events like the Vogue Fashion Show, there is still work to be done. For instance, right now the Google Glass does not come with any lenses. While that may be fine, maybe even ideal, for those of us who do not usually wear glasses, the people who do wear prescription lenses or contacts are going to have to wait until Google upgrades the Glass. Because the only members of the general population who have tried the Google Glass are those who applied, were selected, and paid \$1500.00, Google has been considering opening up retail stores where customers would be able to try them on. Google also hopes to start partnerships with major sunglass companies, such as Ray-Ban, in order to further promote their product. (Miller, 2013)

As discussed earlier, and perhaps the most important area of research that needs to be focused on, is their facial recognition software. Without the proper privacy requirements and privacy features, Google may lose many potential customers who are afraid of the security risk. Other areas of research, which could serve to benefit the Google Glass, are the incorporation of texting and calling, more colors, and a cheaper price.

CONCLUSION

The idea of a new groundbreaking product predicting to change the lifestyle of individuals, has a way of raising skepticism within society. Society was nervous for the first television and the first computer, but they slowly became more accepting. Society will need to be open-minded for this product to be able to use it to its full benefit. Google Glass will be the next big thing for centuries to come. Consumers will be able to have access to the world's information, interact with people while using their Google Glass and even more. The scare for whether this device will be secure or intrude citizen's privacy is valid but will be reduced by the time the product is released. Google Glass's ultimate goal will be achieved and will encourage more technology developments.

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