



Fig.3. Design of the Wearable Computer.

C. Performance and cost analysis table .

Features	Traditional computer	Raspberry Pi based computer
Price	Minimum price of 20,000 INR.	4000 INR.
CPU	Personal computers use Intel core these days	700MHz ARM1176JZF – S Core
Memory	Powerful RAM up to 8gb	512MB
USB Ports	4-5	4(integrated USB Hub) with B+ model
Onboard storage	External or Internal devices supplemented with powerful RAM	Micro SD
Portable	No	Yes

IV. CONCLUSION

Through this study we have demonstrated how computers could be made affordable by anyone irrespective of their social conditions. The ease of working anywhere and being able to perform all the activities of a traditional desktop

computer is being demonstrated. Raspberry Pi based systems have huge potential in diversified fields such as robotics, UAV(Unmanned Aerial Vehicles), weather monitoring systems, gaming world, surveillance, automation systems any many more.

The system is reliable and affordable. We have looked at technology the other way by giving sight to the digital world by being connected to it always.

V. FURTHER ENHANCEMENTS

This system has its advantages but has compromised on the ARM architecture of the Pi. It also has the disadvantage of the glasses being held very close to the eyes, this could be replaced with a small hand held display.

The wearable computer could be further improvised by fixing a small barcode scanner to the video glass which could be used to scan the barcode of products in a super market and to enable the user to choose the product that is best suited for him even without touching the product, by the information that would be displayed on the video glasses. Another perspective of looking at it would be by programming the device to enable easy or smart driving by alerting the driver of a traffic jam, wrong routes or accidents that could be avoided.

Raspberry Pi based computers have wide scope for enhancements. They could be specifically used to address specialized needs or for multi-purpose systems. Computers everywhere being the need of the hour, it could be impossible at times owing to their huge size and cost. Raspberry Pi based systems could be an effective alternative at such situations. These computers could be used in surveillance systems to operate the device that could be remotely controlled, in plant monitoring systems to check the growth of the plants, weather monitoring systems, setting up a home server, home automation systems and much more.

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VII. REFERENCES

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