

A

Seminar report

on

E-BALL Technology

Submitted in partial fulfillment of the requirement for the award of

Degree of Computer Science

SUBMITTED TO:

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Preface

I have made this report file on the topic **E-BALL Technology**, I have tried my best to elucidate all the relevant detail to the topic to be included in the report. While in the beginning I have tried to give a general view about this topic.

My efforts and wholehearted co-corporation of each and everyone has ended on a successful note. I express my sincere gratitude towho assisting me throughout the prepration of this topic. I thank him for providing me the reinforcement, confidence and most importantly the track for the topic whenever I needed it.

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Acknowledgement

I would like to thank respected Mr..... and Mr.for giving me such a wonderful opportunity to expand my knowledge for my own branch and giving me guidelines to present a seminar report. It helped me a lot to realize of what we study for.

Secondly, I would like to thank my parents who patiently helped me as i went through my work and helped to modify and eliminate some of the irrelevant or un-necessary stuffs.

Thirdly, I would like to thank my friends who helped me to make my work more organized and well-stacked till the end.

Next, I would thank Microsoft for developing such a wonderful tool like MS Word. It helped my work a lot to remain error-free.

Last but clearly not the least, I would thank The Almighty for giving me strength to complete my report on time.

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INTRODUCTION

The E-Ball concept PC is a sphere shaped computer which is the smallest design among all the laptops and desktops. Soon E-BALL based computer will be the new pc to be used in the near future.

E-BALL



The E-ball technology for the future pc was proposed by Apostol Tnokovski who is a product designer in Marcedonia . The E-ball is the smallest pc that has ever been designed till now. It is not going to be like a PDA but like a PC with features of a conventional computer.

CONCEPT OF E-BALL

The E-BALL is a sphere shaped computer. Apostol Tnokovski decided to give sphere shape to the pc because he considered the sphere to be the most attractive shape in the nature that gathers the attention of all.

The body of E-BALL is made up of aluminium and plastic parts. E-BALL is the smallest among all the PCs developed so far as it has 120x120mm motherboard and is 6 inch in diameter. The E-BALL pc has all the features and elements of conventional computer like mouse, keyboard, displayetc.



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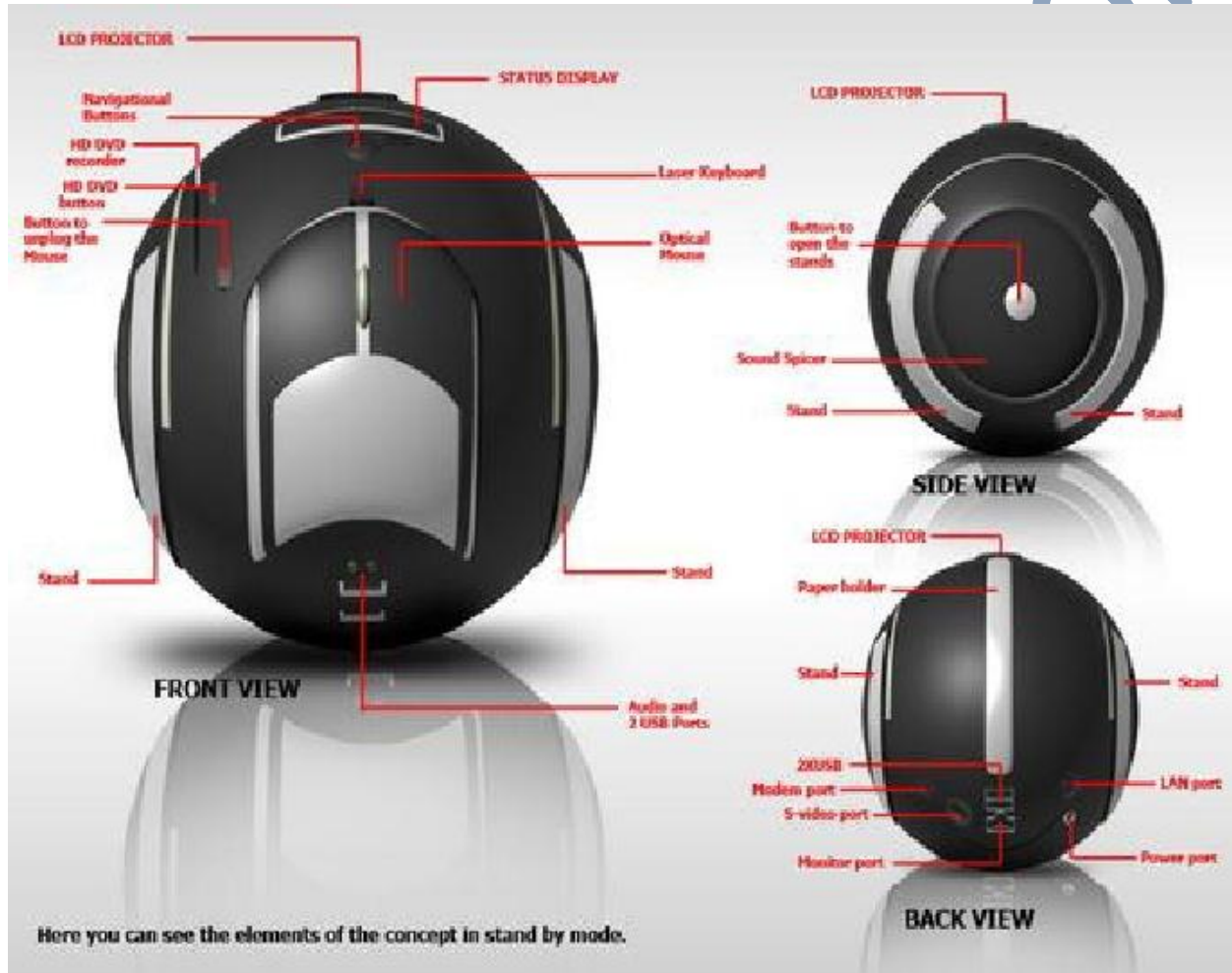
History Of E-ball

- Designer Apostol Tnokovski has Replaced the good old PC from the shackles of the monotonous squares and rectangular shape with his newly designed wonder in a spherical shape.
- According to Apostol it is the best shape in nature and it draws everybody attention. It is the smallest PC ever made.
- It is definitely small when it comes to the size but as they say all good things come in small packages, this tiny round PC is no exception.
- It is loaded with all features that you can only dream of to have in a regular PC. It comes packed with a projected keyboard and display.

Elements of E-BALL

Virtual keyboard Dual core processor 2GB RAM 350-500GB hard drive Integrated graphics and sound card Speakers Wireless optical mouse LAN & WLAN card Modem Web cam LCD projector Paper holder The above mentioned elements as seen from the front, side, back view have been depicted in the picture as shown on the next page.

Front view, side view and back view of the elements of E-BALL



Working of E-BALL

The first thing before starting the E-BALL pc is to put it into standing position. For this press the two buttons on the sides of E-BALL for 5 seconds and the stands are automatically opened and adjusted so as to hold the E-BALL PC in position.

After this the On/OFF button on the top of E-BALL must be pressed to turn on the PC and the projector pops up. After this the focus, direction etc can be adjusted using the navigation buttons.



Working of Display unit

When the stand has been opened and the system has been turned on, it becomes functional only when the screen or the display unit is available. The display unit is not physically present or attached on to the E-BALL.

Rather, with the help of the projector popping up out of the E-BALL PC, the display unit can be projected on to the wall which can work as screen.

IF THERE IS NO WALL ?

The real problem arises if there is no wall to work as a screen. In case we are working in an open place without any wall, then we can use a sheet of paper to work as screen for us.

The sheet holder is on the back of the E-BALL, and can be opened by pressing it on its lower part. As it pops up, it gets divided into three parts like an umbrella and the sheet can be placed on it to work as screen.

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Virtual laser Keyboard

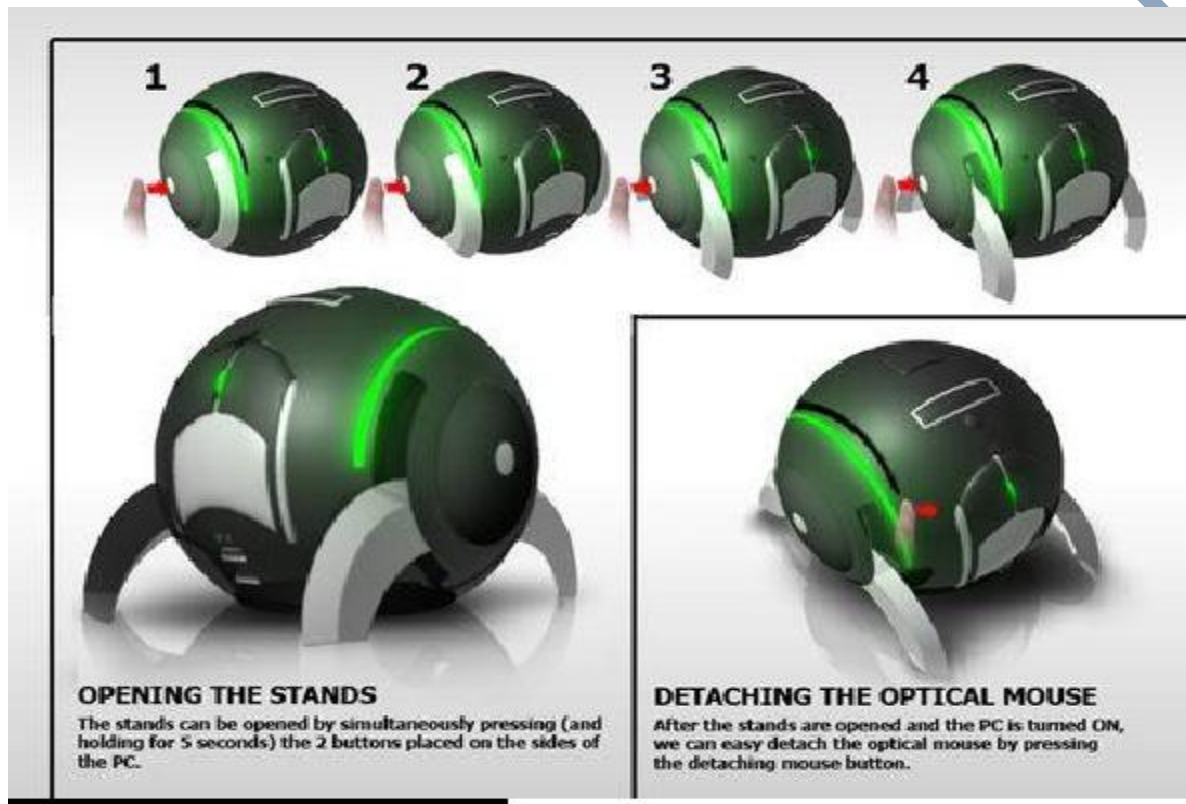
The E-BALL PC has a laser keyboard which is concept keyboard which is visible only when the PC is in working mode. The keyboard is not physical rather it is interpreted by lasers which come into play when the respective button is pressed.

It recognizes your fingers with the help of your Infrared sensors when you are typing at a particular place. The Virtual Laser Keyboard (VKB) leverages the power of laser and infrared technology and projects a full-size keyboard onto any flat surface.



Optical Mouse

Also there is an optical mouse which is normally attached to the body of the E-BALL. The mouse can be detached from the body of the E-BALL by pressing the mouse detaching button on the left hand side of the PC body at the front (when the mouse is attached to the E-BALL).



The Software Interface

The software interface of the E-BALL PC is highly stylized with icons that support all types of Windows operating system.

Also, the icons can be easily remembered and are easy to use. So the interface is very user friendly. The various icons that are available on the display screen on the left hand side are as shown below in the picture.



FEATURES OF E-BALL

- It contains wireless optical mouse and laser keyboard, and LCD projector.
- It has around 350-600GB of Hard Disk Drive.
- It contains 2GB RAM.
- It has two 50W speakers.
- Checks lighting of room using sensors and adjusts the projection light intensity accordingly.
- It has LAN and WLAN card and a Web cam.
- It is small in size so it is easy to carry.
- The keyboard is a virtual one not a physical keyboard and it is available only when the E-BALL pc is working mode

The display is also a holographic display and any wall or a sheet of paper can work as display screen.

The E-BALL PC with all the features of a normal PC along with a whole new range of advanced characteristics is ready to form a base for the design of computers in future especially the ones that will be used at homes, offices and need to be carried from one place to another.

Scenarios for Use

- The first place for E-BALL to find an application is while working in office
- Also it can be used for making video presentations
- Also watching movies can be a great use that can be extracted out of the E-BALL in day-to-day life.
- We can also listen music.
- Chatting on the Internet can be done very easily and is an important utility that can be derived from the E-BALL PC as it can help in conducting online conferences .



Advantages of E-BALL

- The E-BALL PC is small in size as it has spherical shape and hence this makes the PC portable and easy to carry from one place to another.
- E-BALL PC has a large memory and thus can be used to store large amount of data.
- The PC does not require any special display and can use any plain wall or sheet as display screen.
- Also the working speed of the E-BALL PC is great.
- The E-BALL PC supports user defined keyboard layout.

Disadvantages of E-BALL

- The PC that is E-BALL PC is designed to work with all kinds of Windows Operating systems. No specifications for its working with other O.S. has yet been provided.
- Also since the E-BALL PC has virtual laser keyboard, holographic display detachable mouse, it has high cost.
- So it is affordable normally.
- If any problem occurs in the hardware of the system, then it is difficult to understand and be recovered easily.

Conclusion

Today the technology is beyond what we could imagine before. Also now-a-days, the new developments are not just the result of the necessity, rather invention and innovation are the new drivers in the development of technology.

So constant updation is the key method to stay and survive in the emerging market of science and technology. The new concept of E-BALL PC that has been proposed few years back but yet has not practically implemented for use in any field. But still the E-BALL PC concept has provided the idea for design of future PC.

Our imaginations have dressed into reality and with the new concept of E-BALL PC, it has become possible to have PC in our pockets.

LET's wait for the time to have the E -BALL PCs in our hands.

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